



This user manual includes detailed usage instructions for your camera. Please read this manual thoroughly.

USER MANUAL

EX2F

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Health and safety information

Always comply with the following precautions and usage tips to avoid dangerous situations and ensure peak performance of your camera.



Warning—situations that could cause injury to yourself or others

Do not disassemble or attempt to repair your camera.

This may result in electric shock or damage to the camera.

Do not use your camera near flammable or explosive gases and liquids.

This may cause a fire or explosion.

Do not insert flammable materials into the camera or store these materials near the camera.

This may cause a fire or electric shock.

Do not handle your camera with wet hands.

This may result in electric shock.

Prevent damage to subjects' eyesight.

Do not use the flash in close proximity (closer than 1 m/3 ft) to people or animals. If you use the flash too close to your subject's eyes, this can cause temporary or permanent eyesight damage.

Keep your camera away from small children and pets.

Keep your camera and all accessories out of the reach of small children and animals. Small parts may cause choking or serious injury if swallowed. Moving parts and accessories may present physical dangers as well.

Do not expose the camera to direct sunlight or high temperatures for an extended period of time.

Prolonged exposure to sunlight or extreme temperatures can cause permanent damage to your camera's internal components.

Avoid covering the camera or charger with blankets or clothes.

The camera may overheat, which may distort the camera or cause a fire.

Do not handle the power supply cord or go near the charger during a thunderstorm.

This may result in electric shock.

If liquid or foreign objects enter your camera, immediately disconnect all power sources, such as the battery or charger, and then contact a Samsung service center.

Comply with any regulations that restrict the use of a camera in a certain area.

- · Avoid interference with other electronic devices.
- Turn off the camera when in an aircraft. Your camera can cause interference with aircraft equipment. Follow all airline regulations and turn off your camera when directed by airline personnel.
- Turn off the camera near medical equipment. Your camera can interfere with medical equipment in hospitals or health care facilities. Follow all regulations, posted warnings, and directions from medical personnel.

Avoid interference with pacemakers.

Maintain a minimum of 15 cm (6 inches) between this camera and all pacemakers to avoid potential interference, as recommended by the manufacturer and the independent research group, Wireless Technology Research. If you have any reason to suspect that your camera is interfering with a pacemaker or other medical device, turn off the camera immediately and contact the manufacturer of the pacemaker or medical device for guidance.



Caution—situations that could cause damage to your camera or other equipment

Remove the batteries from your camera when storing it for an extended period of time.

Installed batteries may leak or corrode over time and cause serious damage to your camera.

Use only authentic, manufacturer-recommended, Lithium-ion replacement batteries. Do not damage or heat the battery.

Inauthentic, damaged, or heated batteries may cause a fire or personal injury.

Use only Samsung-approved batteries, chargers, cables and accessories.

- Using unauthorized batteries, chargers, cables or accessories can cause batteries to explode, damage your camera, or cause injury.
- Samsung is not responsible for damage or injuries caused by unapproved batteries, chargers, cables or accessories.

Use the battery only for its intended purpose.

Misusing the battery may cause a fire or electric shock.

Do not touch the flash while it fires.

The flash is very hot when fired and may burn your skin.

When you use the AC charger, turn off the camera before you disconnect the power to the AC charger.

Failing to do so may result in fire or electric shock.

Disconnect the charger from the wall socket when not in use.

Failing to do so may result in fire or electric shock.

Do not use a damaged power supply cord, plug, or loose outlet when you charge batteries.

This may cause a fire or electric shock.

Do not allow the AC charger to come in contact with the +/terminals on the battery.

This may cause a fire or electric shock.

Do not drop or subject the camera to strong impacts.

Doing so may damage the screen or external or internal components.

Exercise caution when you connect cables or adapters and install batteries and memory cards.

If you force the connectors, improperly connect cables, or improperly install batteries and memory cards, you can damage ports, connectors, and accessories.

Keep cards with magnetic strips away from the camera case.

Information stored on the card may be damaged or erased.

Never use a damaged charger, battery, or memory card.

This may result in electric shock or camera malfunction or cause a fire

Do not place the camera in or near magnetic fields.

Doing so may cause the camera to malfunction.

Do not use the camera if the screen is damaged.

If the glass or acrylic parts are broken, visit a Samsung Electronics Service Center to have the camera repaired.

Check that the camera is operating properly before use.

The manufacturer takes no responsibility for any loss of files or damage that may result from camera malfunction or improper use.

You must plug the small end of the USB cable into your camera.

If the cable is reversed, it may damage your files. The manufacturer is not responsible for any loss of data.

Avoid interference with other electronic devices.

Your camera emits radio frequency (RF) signals that may interfere with unshielded or improperly shielded electronic equipment, such as pacemakers, hearing aids, medical devices, and other electronic devices in homes or vehicles. Consult the manufacturers of your electronic devices to solve any interference problems you experience. To prevent unwanted interference, use only Samsung-approved devices or accessories.

Use your camera in the normal position.

Avoid contact with your camera's internal antenna.

Data transference and your responsibilities

- Data transferred via WLAN could be leaked, so avoid transferring sensitive data in public areas or on open networks.
- The camera manufacturer is not liable for any data transfers that infringe on copyrights, trademarks, intellectual property laws, or public decency ordinances.

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- Trademarks and trade names used in this manual are the property of their respective owners.
 - Camera specifications or contents of this manual may be changed without prior notice due to upgrade of camera functions.
 - We recommend using your camera within the country where you purchased it.
 - Use this camera responsibly and adhere to all laws and regulations concerning its use.
 - You are not allowed to reuse or distribute any part of this manual without prior permission.

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Learn about your camera's layout, icons, and basic functions for shooting.	
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Learn how to set the options in Shooting mode.	
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Learn how to play back photos or videos, and edit photos or videos. Also, learn how to connect your camera to your computer, TV, HDTV, or 3D TV.	
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Learn how to connect to wireless local area networks (WLANs) and use functions.	
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Get information about error messages, specifications, and maintenance	

Indicators used in this manual

Shooting mode	Indicator
Smart Auto	SMART
Program	P
Aperture Priority	Α
Shutter Priority	S
Manual	M
Magic Plus	a
Movie	×
Wi-Fi	Wi-Fi

Shooting mode icons

These icons appear in the text when a function is available in a mode. See the example below.

Note: The mode may not support functions for all scenes or modes.

For example:

▲ Darker (-)

▲ Neutral (0)



▲ Brighter (+)

Icons used in this manual

Icon	Function
	Additional information
<u> </u>	Safety warnings and precautions
[]	Camera buttons. For example, [Shutter] represents the shutter button.
()	Page number of related information
\rightarrow	The order of options or menus you must select to perform a step; for example: Select Face Detection → Normal (represents Select Face Detection, and then select Normal).
*	Annotation

Expressions used in this manual

Pressing the shutter

- Half-press [Shutter]: press the shutter halfway down
- Press [Shutter]: press the shutter all the way down



Subject, background, and composition

- Subject: the main object in a scene, such as a person, animal, or still life
- · Background: the objects around the subject
- . Composition: the combination of a subject and background



Exposure (Brightness)

The amount of light that enters your camera determines the exposure. You can alter the exposure with shutter speed, aperture value, and ISO sensitivity. By altering the exposure, your photos will be darker or lighter.





▲ Normal exposure

▲ Overexposure (too bright)

Basic troubleshooting

Learn to solve common problems by setting shooting options.

10	The subject's eyes appear red.	Red eye occurs when the subject's eyes reflect light from the camera flash. • Set the flash option to ● Red-eye or
		If the photo has already been captured, select Red-eye Fix in the edit menu. (p. 109)
	Photos have dust spots.	If dust particles are present in the air, you may capture them in photos when you use the flash. Turn off the flash or avoid capturing photos in a dusty place. Set ISO sensitivity options. (p. 71)
R	Photos are blurred.	Blurring can occur if you capture photos in low light conditions or hold the camera incorrectly. Use the Image Stabilization function or half-press [Shutter] to ensure the subject is focused. (p. 38)
	Photos are blurred when shooting at night.	As the camera tries to let in more light, the shutter speed slows. This can make it difficult to hold the camera steady long enough to take a clear picture and may result in camera shake. • Select Scene → Night in mode. (p. 48) • Turn on the flash. (p. 69) • Set ISO sensitivity options. (p. 71) • Use a tripod to prevent your camera from shaking.
4)	Subjects come out too dark because of backlighting.	When the light source is behind the subject or when there is a high contrast between light and dark areas, the subject may appear too dark. Avoid shooting toward the sun. Select Scene → Backlight in mode. (p. 48) Set the flash option to Fill in. (p. 69) Adjust the exposure. (p. 82)
		Set the metering option to Spot if a subject is in the center of the frame. (p. 84)

Quick reference



Capturing photos of people

- mode > Scene > Beauty Shot ▶ 49
- mode > Picture in Picture ► 55
- · Red-eye/Red-eye Fix (to prevent or correct red-eve) ▶ 68
- Face Detection ▶ 77
- Self-Portrait ▶ 77



Capturing photos at night or in the dark

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- Flash options ▶ 68
- . ISO sensitivity (to adjust the sensitivity to light)



Capturing action photos

- S mode ▶ 46
- High-speed burst mode ▶ 87
- Precapture ▶ 88



Capturing photos of text, insects, or flowers

- mode > Scene > Text ▶ 48
- Macro ▶ 72



Capturing panoramic action ohotos

 mode > Panorama > Action Panorama ▶ 52



Adjusting the exposure (brightness)

- mode > HDR ► 57
- · ISO sensitivity (to adjust the sensitivity to light)
- EV (to adjust exposure) ▶ 82
- · Metering ▶ 84
- WB BKT ▶ 88
- AF RKT ▶ 88



Capturing photos of scenery

- mode > Scene > Landscape ► 48
- mode > Panorama ► 50



Capturing 3D photos

- mode > Scene > 3D Photo ▶ 50



Reducing camera shake

Image Stabilization ▶ 37



Applying effects to photos

- mode > Magic Frame ► 53
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Basic functions

Learn about your camera's layout, icons, and basic functions for shooting.

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Unpacking

The following items are included in your product box.



Camera



AC adapter/USB cable



Rechargeable battery



Strap



User Manual CD-ROM



Quick Start Guide



Lens cap/Lens cap strap

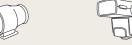


- . The illustrations may differ slightly from the items shipped with your product.
- You can purchase optional accessories at a retailer or a Samsung service center. Samsung is not responsible for any problems caused by using unauthorized accessories.

Optional accessories



Optical viewfinder



Flash



Camera case



HDMI cable/A/V cable



Battery charger



Memory card



Memory card/Memory card adapter



Microphone

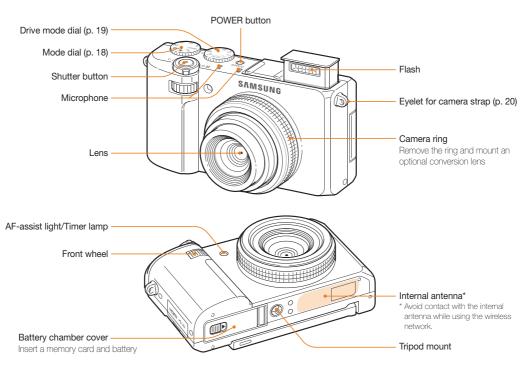


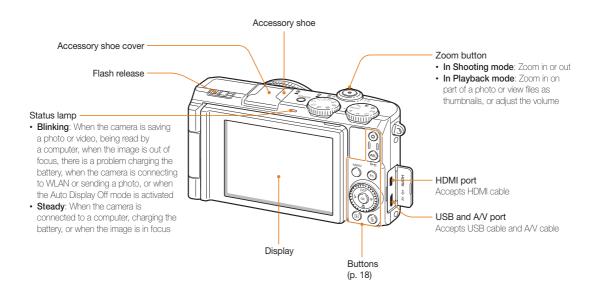
Shutter release

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Camera layout

Before you start, familiarize yourself with your camera's parts and their functions.





Buttons

Button	Description		
0	Start recording a video.		
(AEL)		 Lock the adjusted exposure value in Shooting mode. Protect the displayed file in Playback mode. 	
MENU	Access	Access options or menus.	
Fn	Access options in Shooting mode.		
	When p	ressing the navigation butto	on:
		Basic functions	Other functions
	DISP	Change the display option.	Move up
	*	Change the macro option.	Move down
STITUDISPUTA	4	Change the flash option.	Move left
4 (OK) ®	?	Smart Link button: Launch a preset Wi-Fi function.	Move right
	When rotating the navigation button: Scroll to an option or menu. Adjust the aperture value in Shooting mode. Scroll through files in Playback mode.		
(OK)	Confirm the highlighted option or menu.		
(E)	Enter Playback mode.		
(iii)	Delete files in Playback mode.		

Mode dial



Icon	Description
SMART	Smart Auto: Capture a photo with a scene mode selected automatically by the camera.
P	Program: Capture a photo by setting options except the shutter speed and aperture value which the camera sets automatically.
Α	Aperture Priority: The camera selects a shutter speed based on the aperture value you have set manually.
S	Shutter Priority: The camera selects an aperture value based on the shutter speed you have set manually.
М	Manual : Adjust various camera settings including shutter speed and aperture value.
	Magic Plus: Capture a photo with various effects.
•	Movie: Customize settings to record a video.
Wi-Fi	Wi-Fi: Connect to wireless local area networks and use functions.

Drive mode dial



Icon	Description
	Capture a single photo.
2	Capture a photo after a 2-second delay.
10	Capture a photo after a 10-second delay.
BKT	According to a bracketing option, Capture 3 photos with different white balance. Capture 3 photos with different exposures.
M L	In Shooting mode, the camera captures up to 10 photos consecutively while you are pressing [Shutter]. In Video recording mode, the camera records high-speed videos.
□₹;	Capture shots before pressing [Shutter] all the way down.

Using the Smart Link button

You can turn on the Wi-Fi feature conveniently with [Smart Link].



 Press [Smart Link] to activate the Wi-Fi function that you have designated. The camera will activate the designated function.

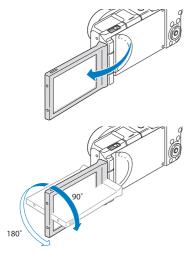
Setting a Smart Link button option

You can select a Wi-Fi function to launch when you press [Smart Link].

- 1 In Shooting or Playback mode, press [MENU].
- 2 Select ♦ → Smart Link (Wi-Fi Button).
- 3 Select a desired Wi-Fi feature. (p. 152)

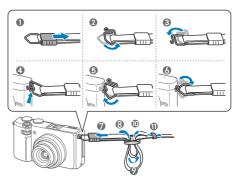
Using the screen

Swing the screen outwards 180° and rotate it up or down for high- and low-angle photos or self portraits. You can rotate the screen a maximum of 90° downward or 180° upward.



Attaching a strap

Attach a strap to carry your camera conveniently.

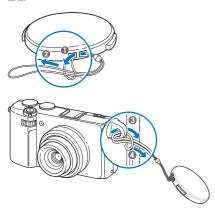




- · Fold the screen when not in use.
- Rotate the screen only within the angle allowed. Or, the camera may be damaged.

Attaching a lens cap

Attach a lens cap with a lens cap strap to protect the camera lens.

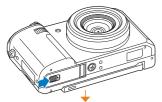




If you want to attach a lens cap and strap at the same time, first attach the strap to the eyelet, and then attach the lens cap to the camera strap.

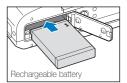
Inserting the battery and memory card

Learn how to insert the battery and an optional memory card into the camera.



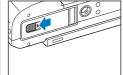


Insert a memory card with the gold-colored contacts facing down.

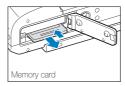


Insert the battery with the Samsung logo facing down.

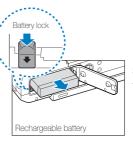




Removing the battery and memory card



Push the card gently until it disengages from the camera, and then pull it out of the slot.



Slide the lock down to release the battery.

Using the memory card adapter



To use micro memory cards with this product, a PC, or a memory card reader, insert the card into an adapter.

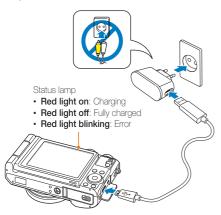


If a memory card is not inserted, you cannot use your camera properly. Insert a memory card before using the camera.

Charging the battery and turning on your camera

Charging the battery

Before you use the camera for the first time, you must charge the battery. Plug the small end of the USB cable into your camera, and then plug the other end of the USB cable into the AC adapter.



Use only the AC adapter and USB cable supplied with your camera. If you use another AC adapter (such as SAC-48), the camera battery may not charge or work properly.

Turning on your camera

Press [POWER] to turn your camera on or off.

• The initial setup screen appears when you turn on the camera for the first time. (p. 24)



Turning on your camera in Playback mode

Press []. The camera turns on and immediately accesses Playback mode.





If you turn on your camera by pressing and holding [12] for about 5 seconds, the camera does not emit any sounds.

Performing the initial setup

When you turn on your camera for the first time, the initial setup screen appears. Follow the steps below to configure the camera's basic settings. The language is preset for the country or region where the camera is sold. You can change the language as desired.

- 1 Press [♥] to select **Time Zone**, and then press [♠] or [**0K**].
- 2 Press [DISP/\$\mathbb{R}] to select **Home**, and then press [OK].
 - When you travel to another country, select Visit, and then select a new time zone.
- 3 Press [4/*] to select a time zone, and then press [0K].
 - · To set daylight-savings time, press [DISP].



4 Press [♥] to select Date/Time Set, and then press [♠] or [0K].

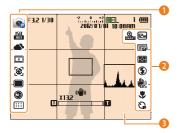


- · The screen may differ depending on the language selected.
- 5 Press [4/3] to select an item.
- 6 Rotate the navigation button or press [DISP/♥] to set the date and time, and then press [OK].

- 7 Press [歌] to select **Date Type**, and then press [零] or [**0K**].
- 8 Press [DISP/₺] to select a date type, and then press [OK].
- 9 Press (♣) to select Time Type, and then press [♠] or [0K].
- 10 Press [DISP/&] to select a time type, and then press [OK].
- 11 Press [MENU] to switch to Shooting mode.

Learning icons

The icons the camera displays on the screen change according to the mode you select or the options you set after blinking in yellow.



Shooting options (left)

Icon	Description
C	Shooting mode
150 100	ISO sensitivity
6	White balance
3	Smart filter
[PVI)	Image adjustment (contrast, sharpness, and saturation)
[8]	Face detection
1/2	Face retouch
- E	Face tone
	Single shot mode
10 F	High-speed burst mode
<u></u>	Precapture mode

Icon	Description
BKT	Bracket mode
	ND filter on
111	Focus area

Shooting options (right)

Icon	Description
<u>Q</u>	Smart zoom on
12m	Photo resolution
CAF	Continuous Auto Focus on
ESF	Photo quality
FULL	Video resolution
-	Metering
30 ≠	Frame rate
③	Flash
ATVE	Sound Alive on
	Optical Image Stabilization (OIS)
*	Auto focus option
63	Timer

Shooting information

	•
Icon	Description
F3.2	Aperture value
1/30	Shutter speed
00:00:10	Available recording time
-2 0 ≠2 Indudated	Exposure value
REL	Auto Exposure Lock on
1	Available number of photos
NO CARD	Memory card not inserted
(III	Fully charged The second sec
2012/07/01 10:00 AM	Current time and date
	Auto focus frame
((Ш))	Camera shake
™ X135	Zoom indicator
X13.2	Zoom ratio
	Histogram (p. 32)

^{*} The battery will not charge if the camera is on.

Basic functions 26

Using the Mode screen

Select a Mode Screen by turning the mode dial, and then select a mode in the Mode Screen by selecting an icon.

Selecting a Mode Screen

In Shooting or Playback mode, turn the mode dial to display a Mode Screen.





	Description
0	Current Mode screen Rotate the mode dial to go to another mode screen.
2	Mode icons • Rotate the navigation button or press [DISP/♥/\$/令] to scroll to a desired mode, and then press [OK] to access the mode.

Icons on the Mode screen

<Magic Plus>

\iiiugio	. 1405
Icon	Description
SCN	Scene : Capture a photo with options that are preset for a specific scene. (p. 48)
	Panorama: Capture and combine a series of photos to create a panoramic image. (p. 50)
	Magic Frame: Capture a photo with various frame effects. (p. 53)
1	Split Shot: Capture several photos and arrange them with preset layouts. (p. 54)
	Picture in Picture: Capture a background photo and insert a smaller photo or video into the foreground. (p. 55)
	Artistic Brush: Capture a photo and view and save a video that shows how to apply the filter effect. (p. 56)
<u></u>	HDR: Capture scenes with emphasis on mid-tones, by minimizing the dark and bright areas. (p. 57)
	Creative Movie Maker: Create a movie simply with photos or videos. (p. 58)

<Wi-Fi>

	Description
EAMEDING.	MobileLink : Send photos or videos to a smart phone. (p. 132)
SAMEDING	Remote Viewfinder: Use a smart phone as a remote shutter release and see a preview on your smart phone of an image from your camera. (p. 133)
(3)	Social Sharing: Upload photos or videos to file sharing websites. (p. 135)
0	Email: Send photos or videos stored on the camera via email. (p. 139)
	Cloud: Upload photos to a cloud server. (p. 140)
	Auto Backup : Send photos or videos that you captured with the camera to a PC wirelessly. (p. 141)
No.	TV Link: View photos or videos that you captured with the camera on a widescreen TV. (p. 143)

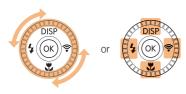
Selecting options or menus

To select an option or a menu, press [MENU] or [Fn].

Using [MENU]

To select options, press [MENU], and then rotate the navigation button or press [DISP/ $\mathbb{Z}/\{\frac{1}{2}/\frac{1}{2}\}$] or [OK].

- 1 In Shooting mode, press [MENU].
- 2 Rotate the navigation button or press [DISP/₺/\$/令] to scroll to a menu or an option.



3 Press [OK] to confirm the highlighted option or menu.

Going back to the previous menu

Press [MENU] again to go back to the previous menu.



Half-press [Shutter] to return to Shooting mode.

For example, to select a White Balance option in Program mode:

1 Rotate the mode dial to P.



2 Press [MENU].



3 Rotate the navigation button or press [DISP/♥] to select , and then press [♠] or [OK].

4 Rotate the navigation button or press [DISP/♥] to select White Balance, and then press [♠] or [OK].



5 Rotate the navigation button or the front wheel, or press [\$/\$\gamma\$] to select a White Balance option.



- 6 Press [**0K**] to save your settings.
- 7 Press [MENU] to return to Shooting mode.

Using [Fn]

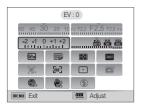
You can access shooting options by pressing $[\mathbf{Fn}]$, but some options are not available.

For example, to select a White Balance option in Program mode:

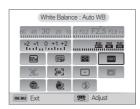
1 Rotate the mode dial to P.



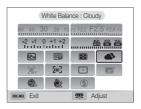
2 Press [Fn].



3 Rotate the navigation button or press [DISP/♥/\$/令] to scroll to .



4 Rotate the front wheel to adjust a White Balance option.



- Press [OK], rotate the navigation button or press [♣/♠], and then press [OK] to save your settings.
- 5 Press [MENU] to return to Shooting mode.

Setting the display and sound

Learn how to change the basic display information and sound settings.

Setting the display type

You can select a display type for the Shooting or Playback mode. Each type displays different shooting or playback information. See the table below.



Press [DISP] repeatedly to change the display type.

Mode	Display type	
Shooting	Hide all information about shooting. Hide information about shooting, except the information on the top line. Display all information about shooting. Display histogram.	
Playback	Hide all information about the current file. Display information about the current file, except the shooting settings and histogram. Display all information about the current file.	

About histograms

A histogram is a graph that illustrates how light is distributed in your photo. If the histogram has a high peak on the left, the photo is underexposed and will appear dark. A peak on the right of the graph means that the photo is overexposed and will appear washed out. The height of the peaks is related to color information. The more of a particular color, the taller the peak.







▲ Under-exposed

▲ Well-exposed

▲ Over-exposed

Setting the option display view

You can hide or show the option display appearing in the Magic plus mode.

Press [**0K**] repeatedly.

- · Hide the option display.
- Show the option display.



▲ For example, in Scene mode

Setting the sound

Turn on or off the sound your camera emits when you perform functions.

- 1 In Shooting or Playback mode, press [MENU].
- 2 Select ♣ → Sounds → Beep Sound.
- 3 Select an option.

Option	Description
Off	The camera does not emit any sounds.
On	The camera emits sounds.

Capturing photos

Learn how to capture photos easily and quickly in Smart Auto mode.

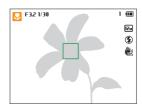
1 Rotate the mode dial to **SMART**.



2 Align your subject in the frame.



- 3 Half-press [Shutter] to focus.
 - · A green frame means the subject is in focus.
 - · A red frame means the subject is out of focus.



- 4 Press [Shutter] to capture a photo.
- 5 Press [] to view the captured photo.
 - To delete the photo, press [m], and then select Yes.
- 6 Press [] to return to Shooting mode.



See page 38 for tips to get clearer photos.

Zooming

You can capture close-up photos by adjusting the zoom.









- The wider you rotate the zoom button, the faster the camera zooms in or out.
- When you rotate the zoom button, the zoom ratio shown on the screen may change inconsistently.

Digital zoom PASM 🕏

The Digital zoom is supported by default in Shooting mode. If you zoom in on a subject in Shooting mode and the zoom indicator is in the digital range, your camera is using the Digital zoom. By using both the 3.3X Optical zoom and 4X Digital zoom, you can zoom in up to 13.2 times.





- The Digital zoom is not available with the Face detection option, Smart Filter effect, Tracking AF option, or Manual Focus.
- If you capture a photo with the Digital zoom, the photo quality may be lower than normal.

Smart zoom PASM

You can use 4.4X Smart zoom which lets you zoom in with less degradation of picture quality than the Optical zoom and Digital zoom. By using the Optical zoom, Smart zoom, and Digital zoom, you can zoom in up to 13.2 times.





- . Smart zoom is not available with the Face detection option, Smart Filter effect, Tracking AF option, or Manual Focus.
- . You cannot use this function when the drive mode dial is set to Continuous, Precapture, or Bracket.
- · If you capture a photo with the Smart zoom, the photo quality may be lower than normal.

Setting Smart zoom

- 1 In Shooting mode, press [MENU].
- 3 Select an option.

Icon	Description
⊕ ⊠0FF	Off: The Smart zoom is deactivated.
<u> </u>	On: The Smart zoom is activated.

Reducing camera shake PASM 🗗 🞬

Reduce camera shake and prevent blurred photos with Optical and Digital Image Stabilization functions.





▲ Before correction

▲ After correction

- 1 In Shooting mode, press [MENU].
- 3 Select an option.

	Description
	Off: Optical Image Stabilization function is deactivated.
仙 》 ois	OIS: Optical Image Stabilization function is activated.
<u>雌))</u> DUAL	DUAL IS : Optical and Digital Image Stabilization functions are activated.

Available options may differ depending on the shooting conditions.



- · Image Stabilization function may not function properly when:
 - you move your camera to follow a moving subject
 - you use the Digital zoom
 - there is too much camera shake
 - the shutter speed is slow (for example, when you capture night scenes)
 - the battery is low
 - you capture a close-up shot
- If you use the Image Stabilization function with a tripod, your images may be blurred by the vibration of the Image Stabilization sensor.
 Deactivate the Image Stabilization function when you use a tripod.
- If the camera is hit or dropped, the display will be blurry. If this occurs, turn off the camera, and then turn it on again.

Tips for getting a clearer photo





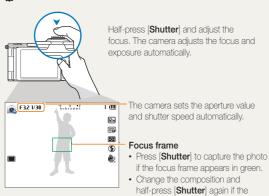
Ensure nothing is blocking the lens, flash, or microphone.





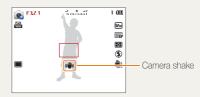
Set the Image Stabilization option to reduce camera shake optically. (p. 37)





focus frame appears in red.

When « is displayed



When you shoot in the dark, avoid setting the flash option to **Slow Sync** or **Off**. The aperture remains open longer and it may be harder to hold the camera steady long enough to capture a clear photo.

- Use a tripod or set the flash option to Fill in. (p. 69)
- · Set ISO sensitivity options. (p. 71)



Preventing your subject from being out of focus

It may be difficult to get your subject in focus when:

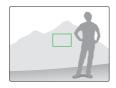
- there is little contrast between the subject and background (for example, when your subject is wearing clothing that is similar in color to the background)
- the light source behind the subject is too bright
- the subject is shiny or reflective
- the subject includes horizontal patterns, such as blinds
- the subject is not positioned in the center of the frame



Using the focus lock

Half-press [Shutter] to focus. When the subject is in focus, you can reposition the frame to change the composition. When you are ready, press [Shutter] to capture your photo.





· When you capture photos in low light



Turn on the flash. (p. 69)

· When subjects are moving rapidly



Use the High-speed burst mode or Precapture function. (p. 87)

Extended functions

Learn how to capture a photo and record a video by selecting a mode.

Using the Smart Auto mode 41	Using the 2D or 3D Panorama mode 50
Using the Program mode	Using the Action Panorama mode 52
Using the Aperture Priority,	Using the Magic Frame mode
Shutter Priority, or Manual mode	Using the Split Shot mode
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Using the Aperture Priority mode 45	Using the Artistic Brush mode 56
Using the Shutter Priority mode 46	· · · · · · · · · · · · · · · · · · ·
Using the Manual mode	Using the HDR mode
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Using the Magic Plus mode 48	· · · · · · · · · · · · · · · · · · ·
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Using the Beauty Shot mode	Using the Smart Scene Detection mode 63
Using the 3D Photo mode 50	Osing the ornar coorie betection mode oo

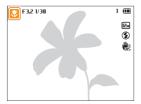
Using the Smart Auto mode

In Smart Auto mode, your camera automatically chooses the appropriate camera settings based on the type of scene it detects. The Smart Auto mode is helpful if you are not familiar with the camera settings for various scenes.

1 Rotate the mode dial to **SMART**.

2 Align your subject in the frame.

 The camera automatically selects a scene. An appropriate scene icon appears at the top left of the screen.
 The icons are listed below.



Icon	Description
<u></u>	Landscapes
WHITE	Scenes with bright white backgrounds
*)	Landscapes at night (when the flash is off)
2	Portraits at night
*	Landscapes with backlighting

Icon	Description
	Portraits with backlighting
	Portraits
	Close-up photos of objects
*	Close-up photos of text
	Sunsets
	Blue skies
<u></u>	Forested areas
	Close-up photos of colorful subjects
₽.	Camera is stabilized or on a tripod (when shooting in the dark)
" !! "	Actively moving subjects
*	Fireworks (when using a tripod)
(2)	Indoors, dark
2	Partially lit
	Close-up with spot lighting
Q	Portraits with spot lighting

- 3 Half-press [Shutter] to focus.
- 4 Press [Shutter] to capture the photo.

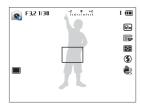


- If the camera does not recognize an appropriate scene mode, it uses the default settings for the SMART mode.
- Even if it detects a face, the camera may not select a portrait mode depending on the subject's position or lighting.
- The camera may not select the correct scene depending on the shooting conditions, such as camera shake, lighting, or distance to the subject.
- Even if you use a tripod, the camera may not detect the R mode if the subject is moving.
- In SMART mode, the camera consumes more battery power, because it changes settings often to select appropriate scenes.

Using the Program mode

In Program mode, you can set most options, except the shutter speed and aperture value, which the camera sets automatically.

- 1 Rotate the mode dial to P.
- 2 Set the desired options.
 - For a list of options, refer to "Shooting options". (p. 64)



- 3 Align your subject in the frame, and then half-press [Shutter] to focus.
- 4 Press [Shutter] to capture the photo.

Using the Aperture Priority, Shutter Priority, or Manual mode

Adjust the aperture value or shutter speed to control the exposure of your photos. You can use these options in the Aperture Priority, Shutter Priority, and Manual modes.

Aperture value

The aperture is a hole that lets light into the camera. The aperture housing contains thin, metal plates that open and close, widening or narrowing the aperture, and controlling the amount of light that enters the camera. The size of the aperture is closely related to the brightness of a photo: the larger the aperture, the brighter the photo; the smaller the aperture, the darker the photo. Note that the larger the aperture value, the smaller the aperture size. For example, an aperture set to 5.6 is larger than an aperture set to 11.



▲ Small aperture value (The size of the aperture is large.)



▲ Large aperture value (The size of the aperture is small.)

Shutter speed

Shutter speed, which is an important factor in the brightness of a photo, refers to the amount of time it takes to open and close the shutter. A slow shutter speed allows more time to let light in. All things being equal, photos are brighter, but fast moving objects tend to blur. On the other hand, a fast shutter speed allows less time to let light in. Photos are darker, but objects in motion are captured more clearly.



▲ Slow shutter speed



▲ Fast shutter speed

Using the Aperture Priority mode

The Aperture Priority mode allows you to set the aperture value manually while the camera automatically selects an appropriate shutter speed.

- 1 Rotate the mode dial to A.
- 2 Rotate the navigation button to adjust the aperture value.
 - See page 44 for more information about the aperture value.



- 3 Set options.
 - For a list of options, refer to "Shooting options". (p. 64)
- 4 Align your subject in the frame, and then half-press [Shutter] to focus.
- 5 Press [Shutter] to capture the photo.

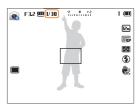


When you set the ISO option to **Auto**, the shutter speed may not change automatically to matich the aperture value. In this case, the camera finds an appropriate exposure value by changing the ISO option automatically when you capture a photo. To set the ISO option manually, press [**MENU**], and then select $\odot \rightarrow ISO \rightarrow$ an option.

Using the Shutter Priority mode

The Shutter Priority mode allows you to set the shutter speed manually while the camera automatically selects an appropriate aperture value.

- 1 Rotate the mode dial to **S**.
- 2 Rotate the front wheel to adjust the shutter speed.
 - See page 44 for more information about the shutter speed.



- 3 Set options.
 - · For a list of options, refer to "Shooting options". (p. 64)
- 4 Align your subject in the frame, and then half-press [Shutter] to focus.
- 5 Press [Shutter] to capture the photo.



When you set the ISO option to **Auto**, the aperture value may not change automatically to matich the shutter speed. In this case, the camera finds an appropriate exposure value by changing the ISO option automatically when you capture a photo. To set the ISO option manually, press [**MENU**], and then select $\odot \rightarrow ISO \rightarrow$ an option.

Using the Manual mode

The Manual mode allows you to adjust both the aperture value and the shutter speed manually.

- 1 Rotate the mode dial to M.
- 2 Rotate the front wheel to adjust the shutter speed.
- 3 Rotate the navigation button to adjust the aperture value.



- 4 Set options.
 - For a list of options, refer to "Shooting options". (p. 64)
- 5 Align your subject in the frame, and then half-press [Shutter] to focus.
- 6 Press [Shutter] to capture the photo.

Using the Magic Plus mode

In the Magic Plus mode, you can capture a photo with various effects.

Using the Scene mode

In Scene mode, you can capture a photo with options that are preset for a specific scene.

- 1 Rotate the mode dial to ...
- 2 Select scn.
- 3 Select a scene.
 - If the option display does not appear, press [OK], or press [MENU] → ★ Select Scene, and then select a scene.



Option	Description
Beauty Shot	Capture a portrait with options to hide facial imperfections.
Night	Capture scenes at night or in low lighting (using a tripod is recommended).

Description
a
Capture still-life scenes and landscapes.
Clearly capture text from printed or electronic documents.
Capture scenes at sunset, with natural-looking reds and yellows.
Capture scenes at sunrise.
Capture backlit subjects.
Reduce underexposure of subjects caused by sunlight reflected from sand or snow.
Capture scenes with a 3D effect (the 3D effect works only on a 3D TV or 3D monitor).

- 4 Align your subject in the frame, and then half-press [Shutter] to focus.
- 5 Press [Shutter] to capture the photo.

Using the Beauty Shot mode

In Beauty Shot mode, you can capture a portrait with options to hide facial imperfections.

- 1 Rotate the mode dial to ...
- 2 Select sin.
- 3 Select Beauty Shot.
- 4 Press [MENU].
- 5 Select **6** → Face Tone.
- 6 Select an option.
 - For example, increase the face tone setting to make skin appear lighter.



7 Select Face Retouch.

- 8 Select an option.
 - For example, increase the face retouch setting to hide more imperfections.



- 9 Align your subject in the frame, and then half-press [Shutter] to focus.
- 10 Press [Shutter] to capture the photo.



When you use the Beauty Shot mode, the focus distance will be set to Auto Macro.

Using the 3D Photo mode

In 3D Photo mode, you can capture scenes with a 3D effect.

- 1 Rotate the mode dial to ...
- 2 Select sci.
- 3 Select 3D Photo.
- 4 Align your subject in the frame, and then half-press [Shutter] to focus.
- 5 Press [Shutter] to capture the photo.
 - The camera captures 2 photos in both JPEG and MPO file formats.



- In 3D Photo mode, the resolution is automatically set to 2m.
- In 3D Photo mode, some shooting options are not available.
- You can view an MPO file that supports the 3D effect only on an MPO-compatible display, such as a 3D TV or 3D monitor. On your camera's display, you can view only JPEG files.
- Use proper 3D glasses when you view an MPO file on a 3D TV or 3D monitor.

Using the 2D or 3D Panorama mode

In Panorama mode, you can capture a wide panoramic scene in a single photo. Capture and combine a series of photos to create a panoramic image.



- ▲ Shooting example
- 1 Rotate the mode dial to ...
- 2 Select
- 3 Press [MENU].
- 4 Select → Panorama → Live Panorama or 3D Panorama.
- 5 Press [MENU] to return to Shooting mode.
- 6 Align your subject in the frame, and then half-press [Shutter] to focus.
 - Align the camera with the far left or the far right, or very top or bottom, of the scene you want to capture.

- 7 Press and hold [Shutter] to start shooting.
- 8 With [Shutter] pressed, slowly move the camera in the direction that will let it capture the rest of the panorama.
 - In 3D Panorama mode, you can capture a scene only in horizontal directions.
 - When the viewfinder is aligned with the next scene, the camera captures the next photo automatically.



- When you are finished, release [Shutter].
 - When you have captured all the necessary shots, the camera combines them into one panoramic photo.



- For best results when capturing panoramic photos, avoid the following:
- moving the camera too quickly or too slowly
- moving the camera too little to capture the next image
- moving the camera at irregular speeds
- shaking the camera
- changing the camera direction while capturing a photo
- shooting in dark places
- capturing moving subjects nearby
- shooting conditions where the brightness or color of light is changing
- Photos taken are automatically saved, and shooting is stopped under the following conditions:
 - if you change the shooting direction while shooting
- if you move the camera too rapidly
- if you do not move the camera
- Selecting Panorama mode will disable the digital and optical zoom functions. If you select Panorama mode while the lens is zoomed in, the camera automatically zooms out to the default position.
- . In Panorama mode, some shooting options are not available.
- The camera may stop shooting due to the shooting composition or movement within the scene.
- In Panorama mode, your camera may not capture the last scene in its entirety if you stop moving the camera exactly where you want the scene to end. To capture the entire scene, move your camera slightly beyond the point where you want the scene to end.

- In 3D Panorama mode, your camera may not capture the very beginning or end of a scene due to the nature of the 3D effect. To capture the entire scene, move slightly beyond the beginning and end points you want to capture.
- In 3D Panorama mode, photos are captured in both JPEG and MPO file formats.
- You can view an MPO file that supports the 3D effect only on an MPO-compatible display, such as 3D TV or 3D monitor. On your camera's display, you can view only JPEG files.
- Use proper 3D glasses when you view an MPO file on a 3D TV or 3D monitor.

Using the Action Panorama mode

In Action Panorama mode, you can capture and combine a series of photos of a moving subject.



- ▲ Shooting example
- 1 Rotate the mode dial to ...
- 2 Select
- 3 Press [MENU].
- 5 Press [MENU] to return to Shooting mode.
- 6 Align your subject in the frame, and then half-press [Shutter] to focus.
 - Align the camera with the far left or the far right side of the scene you want to capture.
- 7 Press and hold [Shutter] to start shooting.

- 8 With [Shutter] pressed, slowly move the camera in the direction that will let it capture the rest of the panorama.
 - . If there is more than one moving subject, the camera may not recognize the correct subject.
 - · If subjects are outside of the guide frame while capturing, the camera does not capture the movement of the subjects.
- 9 When you are finished, release [Shutter].
 - The camera automatically combines the shots into one photo.



- . For best results when capturing panoramic photos, avoid the following:
 - moving the camera too guickly or too slowly
 - moving the camera too little to capture the next image
 - moving the camera at irregular speeds
 - shaking the camera
 - changing the camera direction while capturing a photo
 - shooting in dark places
 - capturing moving subjects nearby
 - shooting conditions where the brightness or color of light is changing
- . The camera may take time to save panoramic photos.
- . In Action Panorama mode, some shooting options are not available.

Using the Magic Frame mode

In Magic Frame mode, you can apply various frame effects to your photos. The shape and the feel of the photos will change according to the frame you select.

- Rotate the mode dial to ...
- Select ...
- Select an option.



- 4 Align your subject in the frame, and then half-press [Shutter] to focus.
- Press [Shutter] to capture the photo.

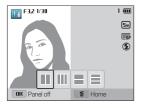


In Magic Frame mode, the resolution is automatically set to 2....

Using the Split Shot mode

In Split Shot mode, you can capture several photos and arrange them with preset layouts.

- 1 Rotate the mode dial to ...
- 2 Select III.
- 3 Select a split style.
 - To adjust the sharpness of the dividing line, press [MENU], and then select ¬ Line Blur → a desired value.
 - To apply a Smart Filter effect to part of the shot, press
 [MENU], and then select → Smart Filter → a desired
 option. You can apply different Smart Filter effects to each part
 of the shot.



- 4 Align your subject in the frame, and then half-press [Shutter] to focus.
- 5 Press [Shutter] to capture a photo.
 - · Repeat steps 4 and 5 to capture the rest of the photos.
 - To recapture a photo, press [m].

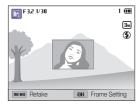


- In Split Shot mode, the resolution is automatically set to 5m or less.
- In Split Shot mode, the available smart filter options are limited.

Using the Picture-in-Picture mode

In Picture-in-Picture mode, you can capture or select a full-sized background photo, and then insert a smaller photo or video into the foreground.

- 1 Rotate the mode dial to ...
- 2 Select 🔝.
- 3 Half-press [Shutter] to focus, and then press [Shutter] to capture a background photo.
 - To select a background photo from your saved photos, press
 [MENU], and then select → Open Image → a desired
 photo. You cannot select a video file or a photo captured in
 Live Panorama mode.
- 4 Press [OK] to set the photo as the background image.
 - · To recapture a background photo, press [MENU].



- 5 Press [OK], and rotate the navigation button or press [DISP/本/李/零] to change the insertion point.
- 6 Rotate the front wheel to change the insertion size.
- 7 Press [**0K**] to save the setting.
- 8 Half-press [Shutter] to focus, and then press [Shutter] to capture and insert a photo.
 - The insertion window appears larger when you half-press [Shutter], so that you can determine whether or not the subject is in focus.
 - To record a video, press (a) (Video recording). To stop recording and insert the video, press (b) (Video recording) again.



- When capturing background photos, the resolution is automatically set to mand all photos captured are saved.
- The final Picture-in-picture photos or videos are saved as one combined file and the inserted photos or videos are not saved separately.
- When inserting an image, the resolution for the combined file is automatically set to 3m.
- When inserting a video, the resolution for the combined file is automatically set to VGR or smaller.
- When capturing a background photo, a photo captured in the vertical position does not rotate automatically.
- The maximum size of the insertion window is 1/4 of the screen, and the aspect ratio stays the same when changing the size.
- . The maximum length of video that can be inserted is 20 minutes.
- In Picture-in-Picture mode, the available zoom range may be less than in other shooting modes.
- When you select a background photo from your saved photos, black bars may appear at the edges of the image, depending on the aspect ratio.

Using the Artistic Brush mode

In Artistic Brush mode, you can capture a photo, and then view a video that shows how to apply the filter effect.

- 1 Rotate the mode dial to 🛳.
- 2 Select 3.
- 3 Select a filter.



Option	Description
Ink Painting	Apply a watercolor painting effect.
Cartoon	Apply a cartoon painting effect.
Sketch	Apply a pen sketch effect.

- 4 Align your subject in the frame, and then half-press [Shutter] to focus.
- 5 Press [Shutter] to capture a photo.
 - After capturing the photo, the video that shows how to apply the filter will begin automatically.



- In Artistic Brush mode, the resolution is automatically set to Sm or smaller.
- In Artistic Brush mode, both the photo with the filter effect and the video that shows how to apply the filter effect are saved.
- In Artistic Brush mode, the available zoom range may be less than in other shooting modes.
- . In Artistic Brush mode, it may take longer to save files.
- You cannot upload a video captured in Artistic Brush mode via the wireless networking feature on your camera.

Using the HDR mode

In HDR(High Dynamic Range) mode, your camera captures two photos with different exposures, and then overlays the bright area of the underexposed photo and the dark area of the overexposed photo. You can capture photos with soft, rich colors.





▲ Without HDR effect

▲ With HDR effect

- 1 Rotate the mode dial to ...
- 2 Select <a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><a><
- 3 Align your subject in the frame, and then half-press [Shutter] to focus.
- 4 Press [Shutter] to capture the photo.
 - The camera captures 2 photos, and then automatically merges them into a single photo.



- The HDR effect may be affected by camera shake, lighting, movement of the subject, and the shooting environment.
- . You cannot use the flash when you use the HDR mode.
- It may take longer to save a photo using the HDR mode
- When you use the HDR mode, the preview image on the screen and the captured photo may appear slightly larger than a photo captured without this effect.
- When you capture a moving subject using the HDR mode, an afterimage may appear.

Using the Creative Movie Maker mode

In the Creative Movie Maker mode, you can easily make movies from the photos and videos stored on your memory card.

Making a movie with the Creative Movie Maker

- 1 Rotate the mode dial to 🖈.
- 3 Select + Movie Creation.

- 4 Select **Select**, and then select files.
 - · You must select at least 2 files.
 - · If you select a folder, every photo in the folder will be selected.
 - If you select a wideo, every photo captured while recording the video will be selected.
 - Select Shuffle to let the camera select photos and videos randomly. The movie cannot exceed 3 minutes in length.





- You cannot select videos made in Creative Movie Maker mode.
- · You cannot select RAW format files.
- If you select the RAW+JPEG format, only JPEG files will be used to make movies in Creative Movie Maker mode.
- You can select up to 60 photos and 10 videos.
- 5 Press [Fn] to confirm the selection.
- 6 Press [] to select **Theme**, and then select a theme.

- 7 Press [] to select Music, and then select music.
- 8 Press [] to select Movie Size, and then select a movie size.
- 9 Press [] to select Creation, and then select Creation Start.
 - · If your camera does not have enough available memory to store the movie, you cannot select Creation Start. Delete files from the memory card to make more memory available. (p. 101)
 - If the pop-up message appears when you select Creation Start, select a smaller movie size in the Movie Size option.
 - . The video rendering may take longer depending on the number and size of the selected files
 - · Press [MENU] to cancel the video rendering.

View a movie made in Creative Movie Maker mode

- 1 Rotate the mode dial to ...
- 3 Press [DISP/\$] to select a movie.
- 4 Press [**0K**] to play the movie.



To view the movie in Playback mode, press []. (p. 96)

Using the Movie mode

In Movie mode, you can customize settings to record full HD (1920 X 1080) videos of up to 20 minutes in length. The camera saves recorded videos as MP4 (H.264) files.



- MP4 (H.264) is a high-compression video format established by the international standards organizations ISO-IEC and ITU-T.
- If you use memory cards with slow write speeds, the camera may not save videos properly. Video recordings may be corrupted or fail to play back correctly.
 - Memory cards with slow writing speeds will not support high-resolution videos and high-speed videos. To record high-resolution or high-speed videos, use memory
 cards with faster write speeds.
- If you activate the Image Stabilization function while recording a video, the camera may record the operating sound of the Image Stabilization function.
- If you use the zoom function when recording a video, the camera may record the noise of the zoom operating. To decrease zoom noise, use the Sound Alive function. (p. 94)
- 1 Rotate the mode dial to 12.
- 2 Set desired options.
 - For a list of options, refer to "Shooting options". (p. 64)
- 3 Press () (Video recording) to start recording.
- 4 Press () (Video recording) again to stop recording.



- The video frame size may appear smaller while you are recording a video depending on the video resolution and frame rate.
- If you perform no operations for approximately 3 minutes while
 recording a video, the screen will become dim. To activate the screen,
 perform any camera operation. If you operate POWER, Zoom, Shutter,
 or Video recording button, the camera will carry out the assigned
 function, even when the screen is dim.

Pause recording

The camera allows you to temporarily pause a video while recording. With this function, you can record separate scenes as a single video.



- · Press [OK] to pause while recording.
- Press [♣] not to continue to automatic focusing.
- Press [0K] to resume.

Capturing still images while recording a video

You can capture still images while recording a video without switching to the photo shooting modes (up to 6 photos).



- · Press [Shutter] to capture images while recording a video.
- · Captured images will be saved automatically.



- Captured images will be automatically resized, depending on the size of the recorded video.
- · You cannot capture still images while recording high-speed videos.
- You cannot capture still images when you pause the video recording.
- The quality of images captured while recording a video may be lower than those captured normally.

Recording high-speed videos

You can record high-speed videos by setting frame rates. High-speed videos will be played in slow motion at 30 FPS, regardless of the frame rate of the video.



- Memory cards with slow write speeds do not support high-speed videos.
- You cannot set Smart Filter effects or Smart Scene Detection mode when recording high-speed videos.
- The camera does not record audio when recording high-speed videos.
- The image quality of high-speed video may be lower than normal speed video.

- 1 Rotate the mode dial to ₩.
 - You can record a high-speed video only in P mode.
- 2 Rotate the drive mode dial.

Icon	Description
H	192 X 144 (480fps): Record 480 frames per second (for up to 10 seconds).
M	384 X 288 (240fps): Record 240 frames per second (for up to 10 seconds).
	640 X 480 (120fps): Record 120 frames per second (for up to 10 seconds).

- 3 Press () (Video recording) to start recording.
- 4 Press () (Video recording) again to stop recording.

Using the Smart Scene Detection mode

In Smart Scene Detection mode, your camera automatically chooses the appropriate camera settings based on the scene it has detected

- 2 Press [MENU].
- 3 Select → Smart Scene Detection → On.
- 4 Press [MENU] to return to Shooting mode.
- 5 Align your subject in the frame.
 - The camera automatically selects a scene. An appropriate scene icon will appear at the top left of the screen.



Icon	Description
<u></u>	Landscapes
	Sunsets
<u> A</u> s	Blue skies
	Forested areas

- 6 Press (Video recording) to start recording.
- 7 Press (a) (Video recording) again to stop recording.



- If the camera does not recognize an appropriate scene mode, it uses the default settings for the Smart Scene Detection mode.
- The camera may not select the correct scene depending on the shooting conditions, such as camera shake, lighting, and distance to the subject.
- · Smart Filter effects are not available in Smart Scene Detection mode.

Shooting options

Learn how to set the options in Shooting mode.

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Using macro	Capturing p burst mode Capturing p Precapture Capturing b
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Selecting a resolution and quality

Learn how to change the image resolution and quality settings.

Selecting a resolution

As you increase the resolution, your photo or video will include more pixels, so it can be printed on larger paper or displayed on a larger screen. When you use a high resolution, the file size will also increase.

Setting the photo resolution

SMART P A S M 🖎

- 1 In Shooting mode, press [MENU].
- 3 Select an option.

Icon	Description
12m	4000 X 3000: Print on an A1 paper.
Юме	4000 X 2672: Print on an A2 paper in wide ratio (3:2).
MP	4000 X 2248: Print on an A2 paper in panorama ratio (16:9) or play back on an HDTV.
Вм	3264 X 2448 : Print on an A2 paper.
Вм	2832 X 2832: Print on an A3 paper in 1:1 ratio.
SM	2592 X 1944: Print on an A4 paper.
(ME)	1984 X 1488 : Print on an A5 paper.

Icon	Description
2m	1920 X 1080: Print on an A5 paper in panorama ratio (16:9) or play back on an HDTV.
lm	1024 X 768: Attach to an email.

Setting the video resolution

SMART P A S M 🖎 🔐

- 1 In Shooting mode, press [MENU].
- 2 Select → Movie Size.
- 3 Select an option.

Icon	Description
FULL	1920X1080: High-quality HD files to play back on an HDTV.
HD	1280X720: HD files to play back on an HDTV.
VGA	640X480: SD files to play back on an analog TV.
920 320	For Sharing: Post on a website using the wireless network (30 seconds maximum).

Setting the photo quality PASM

Set the photo quality setting. Higher image quality settings will result in larger file sizes. The camera compresses and saves the photos you capture in the JPEG format.

- 1 In Shooting mode, press [MENU].
- 3 Select an option.

Icon	Description
©5F	Super Fine: Capture photos in super high quality.
***	Fine: Capture photos in high quality.
₩ _N	Normal: Capture photos in normal quality.
RAIII	RAW : Capture photos and save them without any changes.
R/SF	RAW + S.Fine : Capture photos in super high quality and RAW format.
RAU	RAW + Fine : Capture photos in high quality and RAW format.
RAUN	RAW + Normal: Capture photos in normal quality and RAW format.



If you set the Continuous, Precapture, or Bracket mode, you cannot capture photos in RAW format, and a RAW option will be set to **Super Fine**.

What are RAW files?

Photos captured by a camera are often transformed to JPEG format and stored in the memory according to the settings of the camera at the time of shooting. RAW files are not transformed to JPEG format and are stored in the memory without any changes. RAW files have the file extension "SRW" (For example: "SAM_0001.SRW").

To adjust and calibrate exposures, white balances, tones, contrasts, and colors of the RAW files, use the Samsung RAW Converter program supplied in the software CD-ROM. (See page 121.)

Using the timer SMART P A S M 🗗 🛎

Learn how to set the timer to delay shooting.

1 Rotate the drive mode dial to 2 or 10.



▲ Capture a photo after a 2-second delay.



▲ Capture a photo after a 10-second delay.

2 Press [Shutter] to start the timer.

 The AF-assist light/timer lamp blinks. The camera will automatically capture a photo after the specified time has elapsed.



- · Press [Shutter] to cancel the timer.
- Depending on the Face Detection options you selected, the timer function may not be available.

Shooting in the dark

Learn how to capture photos at night or in low light conditions.

Preventing red-eye P 😝

If the flash fires when you capture a photo of a person in the dark, a red glow may appear in the person's eyes. To prevent this, select **Red-eye** or **Red-eye Fix**. Refer to flash options in "Using the flash."







▲ After correction

How to use the flash

Slide the flash release to pop the flash up when it is need.



When the flash unit is closed, the flash does not fire regardless of the selected option. When the flash unit pops up, the flash fires according to the selected option.



- . While not in use, keep the flash unit closed to prevent damage.
- Forcing open the flash unit may cause damage to your camera.

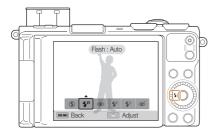
Press down gently to close.



Using the flash SMART P A S M 🗗

Use the flash when you capture photos in the dark or when you need more light in your photos.

- Slide the flash release to pop the flash up when it is need.
- 2 In Shooting mode, press [4].



.3

Select an option.		
Icon	Description	
③	off: The flash will not fire. The camera will display the shake warning (ݛݛϢ)) when you are shooting in low light.	
SMART	Auto : The camera will select a proper flash setting for the scene it detects in Smart Auto mode.	

① 45 de

Auto: The flash will fire automatically when the subject or background is dark.

Red-eye:

- . The flash will fire twice when the subject or background is dark to reduce the red-eve effect.
- . There is an interval between the 2 bursts of the flash. Do not move until the flash fires a second time.

Fill in:

- · The flash always fires.
- · The camera automatically adjusts light intensity.

Slow Sync:

- · The flash fires and the shutter stays open longer.
- . This option is recommended when you want to capture more ambient light to reveal more details in the background.
- · Use a tripod to prevent your photos from blurring.
- The camera will display the shake warning () when you are shooting in low light.

Red-eye Fix:

- The flash fires twice when the subject or background is dark. The camera corrects red-eyes through its advanced software analysis.
- There is an interval between the 2 bursts of the flash. Do not move until the flash fires a second time

Available options may differ depending on the shooting conditions.



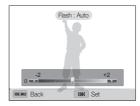
- Flash options are not available if you select Self-Portrait or Blink Detection.
- Make sure that your subjects are within the recommended distance from the flash. (p. 174)
- If light from the flash is reflected or there is a substantial amount of dust in the air, tiny spots may appear in your photo.
- You cannot use this function when the drive mode dial is set to Continuous, Precapture, or Bracket.
- In some modes, you can also set the flash option by pressing [MENU], and then selecting → Flash.

Adjusting the flash intensity

Adjust the flash intensity to avoid over-exposed or under-exposed photos.

- 1 In Shooting mode, press [\$].
- 2 Scroll to an option.
- 3 Press [DISP].

4 Rotate the navigation button or press [♣/♠] to adjust the intensity.



5 Press [**0K**] to save your settings.



- Adjusting the flash intensity may not be effective if:
 - the subject is too close to the camera
 - you set a high ISO sensitivity
 - the exposure value is too big or too small
- . In some shooting modes, you cannot use this function.

Adjusting the ISO sensitivity PASM

The ISO sensitivity is the measure of a film's sensitivity to light as defined by the International Organization for Standardization (ISO). The higher ISO sensitivity you select, the more sensitive to light your camera becomes. Use a higher ISO sensitivity to capture better photos and reduce camera shake when not using the flash

- 1 In Shooting mode, press [MENU].
- 3 Select an option.
 - Select to use an appropriate ISO sensitivity based on the brightness of the subject and lighting.



Higher ISO sensitivities may result in more image noise.

Extending the ISO sensitivity

You can extend the ISO sensitivity to ISO 12800.

- 1 In Shooting mode, press [MENU].
- 2 Select → ISO Expansion → On.



At ISO 12800, the resolution is automatically set to 3m.

Changing the camera's focus

Learn how to adjust the camera's focus to suit the subject and the shooting conditions.

Using macro PASM 🗗 🎬

Use macro to capture close-up photos of subjects, such as flowers or insects.

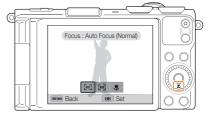


- \mathbb{Z}
- $\bullet\,$ Try to hold the camera firmly to prevent blurry photos.
- Turn off the flash if the distance to the subject is less than 50 cm.

Using auto focus PASM 🗗

To capture sharp photos, select the appropriate focus option according to your distance from the subject.

1 In Shooting mode, press [♣].



2 Select an option.

Auto Focus (Normal): Focus on a subject farther than 40 cm away. Farther than 100 cm away when you use the zoom. Manual Focus: Focus on a subject by adjusting the focus distance manually. (p. 73) Macro: Manually focus on a subject that is 1–40 cm

Auto Macro:



 Focus on a subject farther than 1 cm away. Farther than 40 cm away when you use the zoom.

from the camera. 40-100 cm when you use the zoom.

This option is set automatically in some modes. You cannot set it manually.

Available options may differ depending on the shooting conditions.

Adjusting the focus distance manually

PASM 🖎

- 1 In Shooting mode, press [\$\mathbb{X}].
- 2 Scroll to Manual Focus.
- 3 Press [DISP].
- 4 Rotate the navigation button or press [♣/♠] to adjust the focus distance.



5 Press [OK] to save your settings.

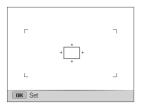


- When you adjust the focus distance manually and the subject is out of focus, the photo may become blurry.
- If you use this function, you cannot set focus area options, Face Detection options, and Smart Zoom option.

Focusing on a selected area PASM 🗗

You can focus on an area that you have selected.

- 1 In Shooting mode, press [MENU].
- Select → Focus Area → Selection AF.
- 3 Press [MENU] to return to Shooting mode.
- 4 Press [OK], and then rotate the navigation button or press [DISP/♥/\$/♠] to move the frame to a desired area.



- 5 Press [**0K**].
- 6 Press [Shutter] to capture the photo.
 - · Press [OK] to change the focus area.

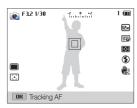


- If you use this function, you cannot set Face Detection options, Smart zoom options, and Smart Filter effects.
- You can use this function only when the drive mode dial is set to Single.

Using tracking auto focus PASM 🗗

Tracking AF allows you to track and auto focus on your subject, even when you are moving.

- 1 In Shooting mode, press [MENU].
- 2 Select → Focus Area → Tracking AF.
- 3 Press [MENU] to return to Shooting mode.
- 4 Focus on the subject you want to track, and then press [0K].
 - A focus frame appears on the subject and follows the subject as you move the camera.



- The white frame means that your camera is tracking the subject.
- When you half-press [Shutter], the green frame means that your subject is in focus.

5 Press [Shutter] to capture the photo.



- If you do not select a focus area, the focus frame will appear in the center of the screen.
- · Tracking a subject may fail when:
 - the subject is too small
 - the subject moves excessively
 - the subject is backlit or you are shooting in a dark place
 - colors or patterns on the subject and the background are the same
 - the subject includes horizontal patterns, such as blinds
 - the camera shakes excessively
- When tracking a subject fails, the focus frame will appear as a white single-line frame (
).
- If the camera fails to track the subject, you must reselect the subject to track.
- If the camera fails to focus, the focus frame will change to a red single-line frame (

).
- If you use this function, you cannot set Face Detection options, Smart zoom, and Smart Filter effects.
- You can use this function only when the drive mode dial is set to **Single**.

Adjusting the focus area PASM 🖎

You can get clearer photos by selecting an appropriate focus area according to your subject's location in the scene.

- 1 In Shooting mode, press [MENU].
- 3 Select an option.

Icon	Description
+	Center AF : Focus on the center of the frame (suitable when subjects are located at or near the center).
###	Multi AF: Focus on one or more of 9 possible areas.
ф	Selection AF: Focus on the area that you select. (p. 74)
(H)	Tracking AF: Focus on and track the subject. (p. 75)

Available shooting options may differ depending on the shooting mode.

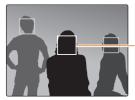
Using Face Detection PASM®

If you use Face Detection options, your camera can automatically detect a human face. When you focus on a human face, the camera adjusts the exposure automatically. Use **Blink Detection** to detect closed eyes or **Smile Shot** to capture a smilling face. You can also use **Smart Face Recognition** to register faces and prioritize the focus on them.

Detecting faces

Your camera automatically detects up to 10 human faces in one scene.

- 1 In Shooting mode, press [MENU].
- 2 Select → Face Detection → Normal.
- 3 Press [MENU] to return to Shooting mode.



The face nearest the camera or nearest the center of the scene appears in a white focus frame and the rest of the faces appear in gray focus frames.



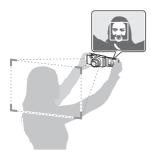
The closer you are to the subjects, the quicker your camera will detect faces.

Capturing a self portrait shot

Capture photos of yourself. The camera sets the focus distance to close-up, and then emits a beep when ready.

- 1 In Shooting mode, press [MENU].
- 2 Select → Face Detection → Self-Portrait.
- 3 Press [MENU] to return to Shooting mode.
- 4 Compose your shot with the lens facing you.

5 When you hear a quick beep, press [Shutter].



If you turn Volume off in the sound settings, the camera will not emit a beep. (p. 150)

Capturing a smile shot

The camera automatically releases the shutter when it detects a smiling face.

- 1 In Shooting mode, press [MENU].
- 2 Select → Face Detection → Smile Shot.
- 3 Press [MENU] to return to Shooting mode.
- 4 Compose your shot.
 - The camera automatically releases the shutter when it detects a smiling face.





When your subject smiles broadly, your camera can detect the smile more easily.

Detecting eye blinking

If your camera detects closed eyes, it will automatically capture 2 photos in succession.

- 1 In Shooting mode, press [MENU].
- 3 Press [MENU] to return to Shooting mode.





Using Smart Face Recognition

The camera automatically registers faces that you frequently photograph. The Smart Face Recognition feature will automatically prioritize the focus on those faces and on favorite faces.

- 1 In Shooting mode, press [MENU].
- 2 Select → Face Detection → Smart Face Recognition.



- ☐: Faces that you have registered as favorites.

 (To register faces as favorites, refer to page 80.)
- : Faces that the camera has automatically registered.

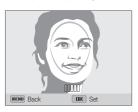


- The camera may recognize and register faces incorrectly depending on lighting conditions, drastic changes in the subject's pose or face, and whether or not the subject is wearing glasses.
- The camera can automatically register up to 12 faces. If the camera recognizes a new face when 12 faces have already been registered, it will replace the lowest priority face with the new one.

Registering faces as your favorites (My Star)

You can register your favorite faces to prioritize the focus and exposure on those faces.

- 1 In Shooting mode, press [MENU].
- 3 Align your subject's face with the oval guideline, and then press [Shutter] to register the face.





- · Capture photos of one person at a time when registering faces.
- Capture 5 photos of the subject's face for best results: one each from the front, left, right, above, and below.
- When capturing photos from the left, right, above, and below, instruct the subject not to turn his or her face more than 30 degrees.
- You can register a face even if you capture only one photo of the subject's face.

- 4 Press [**0K**] to register the face.
 - When you are finished registering the photos, the face list appears.
 - Your favorite faces are indicated with a ★ on the face list.



- · You can register up to 8 favorite faces.
- . The flash will not fire when you register a favorite face.
- If you register the same face twice, you can delete one of the faces in the face list.
- . The newly registered face appears at the top of the list.

Changing the rank of your favorite faces

- 1 In Shooting mode, press [MENU].
- 3 Press [Fn], and then select Edit Ranking.
- 4 Select a favorite face, and then press [**0K**].
- 5 Rotate the navigation button or press [\$/\$\sigma\$] to change the rank, and then press [\$\mathbf{Fn}\$].



To change the rank of your favorite faces in Playback mode, refer to "Ranking your favorite faces" on page 97.

Deleting a favorite face

- 1 In Shooting mode, press [MENU].
- 2 Select → Smart FR Edit → Face List.
- 3 Press [Fn], and then select Cancel My Star.
- 4 Select a favorite face, and then press [0K].
- 5 Press [**f**].
- 6 When the pop-up message appears, select Yes.



To delete a favorite face in Playback mode, refer to "Deleting favorite faces" on page 98.

Tips for detecting faces

- When your camera detects a face, it tracks the detected face automatically.
- · Face Detection may not be effective when:
 - the subject is far from the camera (The focus frame will appear orange for Smile Shot and Blink Detection.)
 - it is too bright or too dark
 - the subject is not facing the camera
 - the subject is wearing sunglasses or a mask
 - the subject's facial expression changes drastically
 - the subject is backlit or the lighting conditions are unstable
- Face Detection is not available when you set Smart Filter effects, Image adjustment, Smart Zoom, Selection AF, Tracking AF, or Manual Focus.
- When you set Face Detection options, the AF area is automatically set to Multi AF.
- You cannot use this function when the drive mode dial is set to Continuous, Precapture, or Bracket.
- When you capture photos of detected faces, they will be registered in the face list.
- You can view registered faces in order of priority in Playback mode. (p. 97) Even though faces are registered successfully, they may not be classified in Playback mode.
- A face detected in Shooting mode may not appear in the face list or Smart Album.

Adjusting brightness and color

Learn how to adjust the brightness and color for better image quality.

Adjusting the exposure manually (EV)

PAS 🔐

Depending on the intensity of the ambient light, your photos may be too bright or dark. In these cases, you can adjust the exposure to get a better photo.



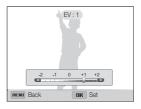




_ Darror () _____ reducting

- 1 In Shooting mode, press [MENU].
- 2 Select \bigcirc or \cong \rightarrow EV.

- 3 Select a value to adjust the exposure.
 - · The photo will be brighter as the exposure value increases.



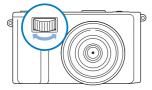
4 Press [**0K**] to save your settings.



- Once you adjust the exposure, the setting will be stored automatically.
 You may need to change the exposure value later to avoid overexposure or underexposure.
- If you cannot decide on an appropriate exposure, select the AE BKT (Auto Exposure Bracket) option (p. 89), and then capture bracketed photos. The camera will capture 3 consecutive photos, each with a different exposure: normal, underexposed, and overexposed. (p. 88)

Adjusting the exposure using the front wheel

- 1 In Shooting mode, press the front wheel.
- 2 Rotate the front wheel to adjust the exposure.



3 Press the front wheel again or [OK] to save your settings.

Locking the exposure value PAS PAS

The adjusted exposure value locks when [AEL] is pressed, and remains locked until [AEL] is pressed again.

- 1 Adjust the exposure manually. (p. 82)
- 2 Press [AEL].
 - The AEL icon turns on.



Changing the metering option

PASM A

The metering mode refers to the way in which a camera measures the quantity of light. The brightness and lighting of your photos will vary depending on the metering mode you select.

- 1 In Shooting mode, press [MENU].
- 2 Select or a → Metering.

frame.

3 Select an option.

Select air option.		
Icon	Description	
⊘	Multi: Your camera divides the frame into several areas, and then measures the light intensity of each area. Suitable for general photos.	
•	Spot: Your camera measures only the light intensity at the very center of the frame. If a subject is not in the center of the frame, your photo may be improperly exposed. Suitable for a subject with backlighting.	
©	Center-weighted: Your camera averages the meter reading of the entire frame with emphasis placed on the center. Suitable for photos with subjects in the center of the	

Selecting a White Balance setting

PASM

The color of your photo depends on the type and quality of the light source. If you want the color of your photo to be realistic, select a White Balance setting that is appropriate for the lighting conditions, such as Auto WB, Daylight, Cloudy, or Tungsten.





RUB Auto WB

• Daylight





Cloudy

- Tungsten

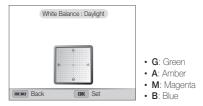
- 1 In Shooting mode, press [MENU].
- 2 Select of or → White Balance.
- 3 Select an option.

	Description
AWB	Auto WB : Automatically set the White Balance based on the lighting conditions.
•	Daylight: For outdoor photos on a sunny day.
a >	Cloudy: For outdoor photos on a cloudy day or in shadows.
1	Fluorescent_H: For shooting under a daylight fluorescent or 3-way fluorescent light.
***	Fluorescent_L: For shooting under white fluorescent light.
; ∳ ;	Tungsten: For shooting indoor photos under incandescent bulbs or halogen lamps.
	Custom Set: To use White Balance settings that you define. (p. 86)
к	Color Temp.: To adjust the color temperature of the light source. (p. 86)

Customizing preset White Balance options

You can customize preset White Balance options except **Auto WB** and **Custom Set**.

- 1 In Shooting mode, press [MENU].
- 3 Scroll to a desired option.
- 4 Press [DISP].
- 5 Rotate the navigation button or press [DISP/₺/♠/♠] to adjust the value on the coordinates.

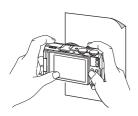


6 Press [**0K**] to save your settings.

Customizing your own White Balance

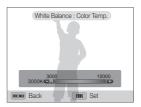
You can customize the White Balance by capturing a photo of a white surface, such as a piece of paper, under the lighting conditions in which you intend to capture a photo. The White Balance feature will help you to match the colors in your photo with the actual scene.

- 1 In Shooting mode, press [MENU].
- 2 Select of or White Balance.
- 3 Scroll to Custom Set.
- 4 Aim the lens at a piece of white paper, and then press [Shutter].



Adjusting color temperature

- 1 In Shooting mode, press [MENU].
- 3 Scroll to Color Temp..
- 4 Press [DISP].
- 5 Rotate the navigation button or press [\$/\rightarrow] to adjust the color temperature to match your light source.
 - You can capture a warmer photo with a higher color temperature setting (more yellow/red), and a cooler photo with a lower color temperature setting (more blue).



Press [**0K**] to save your settings.

Using burst modes PASM

It can be difficult to capture photos of fast-moving subjects or capture natural facial expressions and gestures of your subjects in photos. Also, it can be difficult to adjust the exposure correctly and select a proper light source. In these cases, select one of the burst modes.



Capturing photos in the High-speed burst mode

1 Rotate the drive mode dial.



Icon Description		Description
		Single : Capture a single photo. Single is not a high-speed burst option.
		Continuous (3 fps): Capture 3 photos per second continuously. (You can capture up to 10 photos in one burst.)

	Description
M	Continuous (5 fps): Capture 5 photos per second continuously. (You can capture up to 10 photos in one burst.)
Ш	Continuous (10 fps): Capture 10 photos per second continuously. (You can capture up to 10 photos in one burst.)

- 2 Align your subject in the frame, and then half-press [Shutter] to focus.
- 3 Press and hold [Shutter].
 - While you are pressing [Shutter], the camera captures photos continuously.



- You cannot use the flash, Smart Zoom, Face Detection options, and Smart Filter options when the drive mode dial is set to Continuous, Precapture, or Bracket.
- It may take longer to save the photos depending on the memory card capacity and performance.
- The camera always displays captured photos before returning to Shooting mode.

Capturing photos in the Precapture mode

In Precapture mode, the camera starts shooting before you even press the shutter all the way down. If you do not want to miss the first couple of important shots, simply use this mode and select the photo with the best results after shooting.

- 1 Rotate the drive mode dial to ...
- 2 Align your subject in the frame, and then half-press [Shutter] to focus.
 - The camera captures 9 photos continuously. If you release [Shutter] too fast, the camera captures less than 9 photos.
- 3 Press [Shutter].
 - The camera captures the last photo and automatically saves all 10 photos while you are half-pressing [Shutter].
 - If you do not press [Shutter] all the way down, the photos captured while you are half-pressing [Shutter] will not be saved.

Capturing bracketed photos

You can use the automatic bracketing feature to capture multiple photos of the same subject with different setting values slightly modified, such as exposure or white balance.

- 1 Rotate the drive mode dial to BKT.
- 2 Align your subject in the frame, and then half-press [Shutter] to focus.
- 3 Press [Shutter].
 - The camera captures 3 photos continuously.



It may take longer to capture the photo. Use a tripod for best results.

Selecting a bracketing option

- 1 In Shooting mode, press [MENU].
- 3 Select a bracketing option.

Icon	Description
	WB BKT: Capture 3 photos with different white balance.
THE STATE OF THE S	AE BKT: Capture 3 photos with selected exposures.

- 4 Adjust the color for the selected light source (white balance) or select an exposure value.
- 5 Press [**0K**] to save your settings.

Applying Smart Filter effects PASM ** •

Apply various filter effects to your photos and videos to create unique images.





Miniature

Vignetting





Fish-eye

Sketch

- 1 In Shooting mode, press [MENU].
- 2 Select of or Smart Filter.
- 3 Select an effect.

Available filters in Program, Aperture Priority, Shutter Priority, and Manual modes

Option	Description
Normal	No effect
Miniature	Apply a tilt-shift effect to make the subject appear in miniature.
Vignetting	Apply the retro-looking colors, high contrast, and strong vignette effect of Lomo cameras.
Ink Painting	Apply a watercolor painting effect.
Oil Painting	Apply an oil painting effect.
Cartoon	Apply a cartoon painting effect.
Cross Filter	Add lines that radiate outward from bright objects to imitate the visual effect of a cross filter.
Sketch	Apply a pen sketch effect.
Soft Focus	Hide facial imperfections or apply dreamy effects.
Fish-eye	Distort close objects to imitate the visual effect of a fisheye lens.
Old Film	Apply a vintage film effect.
Half Tone Dot	Apply a halftone effect.
Classic	Apply a black and white effect.

Option	Description
Retro	Apply a sepia tone effect.
Zooming Shot	Blur the edges of a photo to emphasize the subjects in the center.

Available filters in Movie mode

Option	Description
Normal	No effect
Palette Effect 1	Create a vivid look with sharp contrast and strong color.
Palette Effect 2	Make scenes clean and clear.
Palette Effect 3	Apply a soft brown tone.
Palette Effect 4	Create a cold and monotone effect.
Miniature	Apply a tilt-shift effect to make the subject appear in miniature.
Vignetting	Apply the retro-looking colors, high contrast, and strong vignette effect of Lomo cameras.
Half Tone Dot	Apply a halftone effect.
Sketch	Apply a pen sketch effect.
Fish-eye	Distort close objects to imitate the visual effect of a fisheye lens.

Option	Description
Classic	Apply a black and white effect.
Retro	Apply a sepia tone effect.



- Depending on the option you select, the resolution may change to smaller automatically.
- If you select Miniature, the miniature recording time is also displayed and is shorter than the real recording time.
- If you select **Miniature** you cannot record the video sound or capture still images while recording a video.
- Depending on the option you select, the recording speed may change to
 and the recording resolution may change to
 TGH or smaller automatically.
- If you set Smart Filter effects, you cannot set Smart Zoom, Face Detection options, Image Adjustment options, Tracking AF, or Selection AF.
- You cannot use this function when the drive mode dial is set to Continuous, Precapture, or Bracket

Applying the ND filter effect SMART P A S M .

Use the ND (Neutral Density) filter to reduce the light intensity while retaining the original color. The ND filter is useful when you capture photos in bright places with a large aperture value or slow shutter speed.

- 1 In Shooting mode, press [MENU].
- 2 Select of or P→ ND Filter.
- 3 Select an option.

Icon	Description
	Off: The ND filter is not active.
	On: The ND filter is active.

Adjust the sharpness, saturation, or contrast of your photos.

- 1 In Shooting mode, press [MENU].
- 2 Select → Image Adjust.
- 3 Select an option.
 - Contrast
 - · Sharpness
 - · Saturation



4 Rotate the navigation button or the front wheel, or press [₺/♠] to adjust each value.

Contrast	Description
-	Decrease the color and brightness.
+	Increase the color and brightness.

Sharpness	Description
Soften the edges on your photos (suitable for editing the photos on your computer).	
+	Sharpen the edges to improve the clarity of your photos. This may also increase the noise in your photos.

Saturation	Description
-	Decrease the saturation.
+	Increase the saturation.

5 Press [**0K**] to save your settings.



- . Select 0 if you do not want to apply any effects (suitable for printing).
- If you set Image Adjustment options, you cannot set Smart Filter effects or Face Detection options.

Reducing the sound of the zoom PASM .

When you use the zoom while recording videos, the camera can record the sound of the zoom. Use the Sound Alive function to reduce zoom noise.

- 1 In Shooting mode, press [MENU].
- 2 Select → Voice.
- 3 Select an option.

Icon	Description
A ⊡ V∈	Sound Alive On : Turn on the Sound Alive function to reduce the zoom noise.
ALIVE	Sound Alive Off: Turn off the Sound Alive function. The camera can record the zoom noise.
2	Mute: Do not record sounds.



- Do not block the microphone when you use the Sound Alive function.
- · Recordings made with Sound Alive may differ from actual sounds.

Playback/Editing

Learn how to play back photos or videos, and edit photos or videos. Also, learn how to connect your camera to your computer, TV, HDTV, or 3D TV.

Viewing photos or videos in		Viewing files on a TV, HDTV, or 3D TV	1
Playback mode	. 96	Transferring files to your computer	1
Starting Playback mode	96	Transferring files to your Windows OS	
Viewing photos	102	computer	1
Playing a video	105	Transferring files to your Mac OS	
Editing a photo	107	computer	1
Resizing photos	107	Using programs on the computer	1
Rotating a photo	107	Installing CD-provided programs	1
Applying Smart Filter effects	108	Using iLauncher	1
Adjusting your photos	109	Using Samsung RAW Converter	1:
Creating a print order (DPOF)	110		

Viewing photos or videos in Playback mode

Learn how to play back photos or videos and how to manage files.

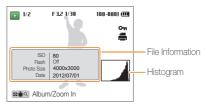
Starting Playback mode

View photos or play videos stored in your camera.

- 1 Press [▶].
 - · The most recent file will be displayed.
 - If the camera is off, it will turn on and display the most recent file.
- 2 Rotate the navigation button or press [♣/♠] to scroll through files.
 - Press and hold [\$/\$] to scroll through files quickly.
- Ø

You may not be able to edit or play back files that were captured with other cameras, due to unsupported sizes or codecs. Use a computer or another device to edit or play back these files.

Photo file information



Icon	Description	
1/2	Current file/Total files	
F3.2	Aperture value	
1/30	Shutter speed	
100-0001	Folder name—File name	
3 0	Photo captured in 3D Photo mode	
Photo captured in a High-speed burst mode or in Precapture mode (See Viewing files as a folder, p. 98)		
Оп	Oπ Protected file	
	Print order has been set (DPOF)	



To display file information on the screen, press [DISP].

Video file information



Icon	Description	
1/2	Current file/Total files	
100-0002	Folder name-File name	
00:00	O Current playback time	
00:20	Video length	
00	Video file	
	Video includes images captured while recording	
	Video made in Creative Movie Maker mode	
Оπ	Protected file	
1	Image captured while recording a video	

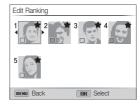


To display file information on the screen, press [DISP].

Ranking your favorite faces

You can rank your favorite faces.

- 1 In Playback mode, press [MENU].



- 3 Select a face from the list, and then press [**0K**].
- 4 Rotate the navigation button or press [♣/奈] to change the ranking of the face, and then press [₱n].

Deleting favorite faces

You can delete your favorite faces.

- 1 In Playback mode, press [MENU].
- 2 Select → Face List Edit → Cancel My Star.
- 3 Select a face, and then press [OK].
- 4 Press [**m**].
- 5 When the pop-up message appears, select **Yes**.

Viewing files as a folder

Photos captured in a High-speed burst mode or in Precapture mode appear as a folder.

- In Playback mode, rotate the navigation button or press [\$/\frac{1}{2}\$] to scroll to a desired folder.
 - The camera will automatically play back photos in the folder.

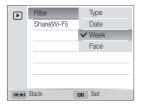


- 2 Press [OK] to open the folder.
- 3 Rotate the navigation button or press [\$/\rightarrow] to scroll through the files.
- 4 Press [OK] to return to Playback mode.

Viewing files by category in Smart Album

View files by category, such as date, face, or file type.

- 1 In Playback mode, rotate [Zoom] to the left.
- 2 Press [MENU].
- 3 Select Filter → a category.



Option	Description	
Type	View files by the file type.	
Date	View files by the date they were saved.	
Week	View files by the day of the week they were saved.	
Face	View files by recognized faces and favorite faces. (Up to 20 people)	

- 4 Rotate the navigation button or press [♣/♠] to scroll through the files.
 - Press and hold [\$/\$\infty\$] to scroll through files quickly.
- 5 Rotate [Zoom] to the right or press [OK] to return to Playback mode.



It may take some time for the camera to open Smart Album, change the category, or reorganize files.

Viewing files as thumbnails

Scan thumbnails of files.



In Playback mode, rotate [Zoom] to the left to view thumbnails (3 at a time). Rotate [Zoom] to the left once or twice more to display more thumbnails (15 or 40 at a time). Rotate [Zoom] to the right to return to the previous view.



To Description	
Scroll through files	Rotate the navigation button or press [DISP/W/\$/\$].
Delete files	Press [m], and then select Yes.

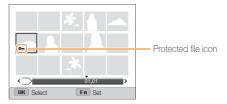


When you scroll to a video file or folder in the thumbnails view, the camera will automatically play back the video or the photos in the folder.

Protecting files

Protect your files from accidental deletion.

- 1 In Playback mode, press [MENU].
- 2 Select → Protect → Select.
 - To protect all files, select All → Lock.
- 3 Scroll to the file you want to protect, and then press [0K].
 - · Press [OK] again to cancel your selection.



4 Press [Fn].



- · You cannot delete or rotate a protected file.
- In Playback mode, you can protect the file by pressing [AEL].

Deleting files

Select files to delete in Playback mode.

Deleting a single file

You can select one file, and then delete it.

- 1 In Playback mode, select a file, and then press [m].
- 2 When the pop-up message appears, select **Yes**.



- When viewing files in Smart Album or thumbnails view, press [m] to delete a file.
- While viewing files as a folder, press [m] to delete all photos in the folder.
- To delete a specific photo in a folder, open the folder, select a file, and then press [m].

Deleting multiple files

You can select multiple files, and then delete them at once.

- 1 In Playback mode, press [面].
- When the pop-up message appears, select Multiple Delete.
 - You can also delete multiple files in Playback mode by pressing [MENU], and then selecting → Delete → Select.
- 3 Scroll to each file you want to delete, and then press [0K].
 - · Press [OK] again to cancel your selection.
- 4 Press [**m**].
- 5 When the pop-up message appears, select **Yes**.

Deleting all files

You can select all files, and then delete them at once.

- 1 In Playback mode, press [MENU].
- 2 Select **₽** → **Delete** → **All**.
- 3 When the pop-up message appears, select Yes.
 - · All unprotected files are deleted.

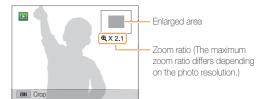
Viewing photos

Enlarge part of a photo or view photos as a slide show.

Enlarging a photo



In Playback mode, rotate [**Zoom**] to the right to enlarge a portion of the photo. Rotate [**Zoom**] to the left to zoom out.



То	Description	
Move the enlarged area	Press [DISP/♥/\$/ \$\bigsilon DISP/♥/\$/ \$\bigsilon DISP/♥/\$/	
Trim the enlarged photo	Press [OK], and then select Yes . (The trimmed photo will be saved as a new file. The original photo is retained in its original form.)	



When you view photos that were captured by another camera, the zoom ratio may differ.

Viewing panoramic photos

View photos captured in Panorama mode.

- 1 In Playback mode, rotate the navigation button or press
 [\$/\\$\gamma\$] to scroll to a desired panoramic photo.
 - The entire panoramic photo appears on the screen.

2 Press [0K].

- The camera automatically scrolls through the photo from left to right for a horizontal panoramic photo and from top to bottom for a vertical panoramic photo. The camera then switches to Playback mode.
- While playing back a panoramic photo, press [0K] to pause or resume.
- After you have paused the playback of a panoramic photo, press [DISP/#/‡/*] to move the photo horizontally or vertically, depending on the direction you moved when capturing the photo.
- 3 Press [MENU] to return to Playback mode.



- The camera automatically scrolls through the panoramic photo only if the longest side of the photo is two or more times longer than the shortest side.
- On your camera's display, a photo captured in 3D Panorama mode appears as a 2D panoramic photo. To see the 3D effect, connect your camera to a 3D TV or 3D monitor. (p. 114)

Playing a slide show

Apply effects and audio to a slide show of your photos. The slide show function does not work for videos.

- 1 In Playback mode, press [MENU].
- 2 Select 🖼.
- 3 Select a slide show effect option.
 - · Skip to step 4 to start a slide show with the default effects.

* Default

Option	Description	
Start	Set whether or not to repeat the slide show. (Play*, Repeat)	
Images	Set the photos you want to view as a slide show. • All*: View all photos in a slide show. • Date: View photos captured on a specific date in a slide show. • Select: View selected photos in a slide show.	
Interval	Set the interval between photos. (1 sec*, 3 sec, 5 sec, 10 sec) You must set the Effect option to Off to set the interval.	

		Doladit
Option	n Description	
Effect	Set a scene change effect between photos. (Off, Calm*, Shine, Relax, Lively, Sweet) Select Off to cancel effects. When you use the Effect option, the interval between photos will be set to 3 seconds.	
Music	Set background audio.	

* Dofoult

- 4 Select Start → Play.
 - · Select Repeat to loop the slide show.
- 5 View the slide show.
 - · Press [OK] to pause the slide show.
 - · Press [OK] again to resume the slide show.



- Press [OK], and then press [\$/\$] to stop the slide show and return to Playback mode.
- . Rotate [Zoom] to the left or right to adjust the volume level.

Playing a video

In Playback mode, you can view a video, and then capture or trim parts of the playing video. You can save the captured or trimmed segments as new files.

- 1 In Playback mode, select a video, and then press [OK].
- 2 View the video.



То	Description
Scan backward	Press (♣). Each time you press [♣], you change the scan speed in this order: 2X, 4X, 8X.
Pause or resume playback	Press [OK].
Scan forward	Press []. Each time you press [], you change the scan speed in this order: 2X, 4X, 8X.
Adjust the volume level	Rotate [Zoom] to the left or right.

Trimming a video

- 1 While viewing a video, press [0K] at the point where you want the trimming to begin.
- 2 Rotate [Zoom] to the right, and then press [OK].
- 3 Press [OK] at the point where you want the trimming to end.
- 4 Rotate [Zoom] to the right.
- 5 When the pop-up message appears, select Yes.



- The original video should be at least 10 seconds long.
- · The camera will save the edited video as new files.

Capturing an image from video

- 1 While viewing a video, press [0K] at the point where you want to capture an image.
- 2 Press [♣].



- The resolution of the captured image will be the same as the original video.
- · The captured image is saved as a new file.

Editing a photo

Learn how to edit photos.



- . The camera will save edited photos as new files.
- When you edit photos, the camera will automatically convert them to a lower resolution. Photos that you rotate or resize manually are not automatically converted to
 a lower resolution.
- You cannot edit a photo while viewing a folder. To edit a photo in a folder, press [OK] to open the folder, and then scroll to the photo.
- You cannot edit photos captured in Panorama mode or 3D Photo mode, and RAW format files.

Resizing photos

Change the size of a photo and save it as a new file.

- 1 In Playback mode, select a photo, and then press [MENU].
- 2 Select A Resize.
- 3 Select an option.

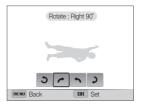




Available resize options differ depending on the original size of the photo.

Rotating a photo

- 1 In Playback mode, select a photo, and then press [MENU].
- 2 Select A Rotate.
- 3 Select an option.



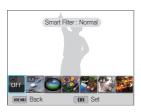


The camera will overwrite the original file.

Applying Smart Filter effects

Apply special effects to your photos.

- 1 In Playback mode, select a photo, and then press [MENU].
- 3 Select an effect.



Option	Description	
Normal	No effect	
Miniature	Apply a tilt-shift effect to make the subject appear in miniature.	
Vignetting	Apply the retro-looking colors, high contrast, and strong vignette effect of Lomo cameras.	
Ink Painting	Apply a watercolor painting effect.	
Oil Painting	Apply an oil painting effect.	

Option	Description	
Cartoon	Apply a cartoon painting effect.	
Cross Filter	Add lines that radiate outward from bright objects to imitate the visual effect of a cross filter.	
Sketch	Apply a pen sketch effect.	
Soft Focus	Hide facial imperfections or apply dreamy effects.	
Fish-eye	Distort close objects to imitate the visual effect of a fisheye lens.	
Old Film	Apply a vintage film effect.	
Half Tone Dot	Apply a halftone effect.	
Classic	Apply a black and white effect.	
Retro	Apply a sepia tone effect.	
Zooming Shot	Blur the edges of a photo to emphasize the subjects in the center.	

Adjusting your photos

Learn how to correct red-eye, adjust the skin tone, and adjust the brightness, contrast, or saturation. The camera will save an edited photo as a new file, but may convert it to a lower resolution.

Removing red-eye

- 1 In Playback mode, select a photo, and then press [MENU].
- 2 Select → Image Adjust → Red-eye Fix.
- 3 Press [OK] to save your settings.

Retouching faces

- 1 In Playback mode, select a photo, and then press [MENU].
- 2 Select → Image Adjust.
- 3 Scroll to Face Retouch.
- 4 Press [DISP].
- 5 Rotate the navigation button or press [♣/♠] to adjust the skin tone.
 - · As the number increases, the skin tone becomes brighter.
- 6 Press [**0K**] to save your settings.

Adjusting brightness, contrast, or saturation

- 1 In Playback mode, select a photo, and then press [MENU].
- 2 Select → Image Adjust.
- 3 Scroll to an adjusting option.

Icon	Description
•	Brightness
₽	Contrast
*	Saturation

- 4 Press [DISP].
- 5 Rotate the navigation button or press [\$/\$\frac{1}{3}\$] to adjust the option.
- 6 Press [**0K**] to save your settings.

Adding noise to the photo

- 1 In Playback mode, select a photo, and then press [MENU].
- 2 Select **2** → Image Adjust → Add Noise.
- 3 Press [OK] to save.

Creating a print order (DPOF)

Select photos to print and save print options in the Digital Print Order Format (DPOF). This information is saved in the MISC folder on your memory card for convenient printing on DPOFcompatible printers.

- 1 In Playback mode, press [MENU].
- - · Select All to print all photos.

- 3 Scroll to a photo you want to print, rotate [Zoom] to the left or right to select the number of copies, and then press [Fn].
 - If you select All, press [DISP/*) to select the number of copies, and then press [DK].
- 4 Press [MENU].
- 5 Select → DPOF → Size → Select.
 - · Select All to choose the print size for all photos.
- 6 Scroll to a photo you want to print, rotate [Zoom] to the left or right to select the print size, and then press [Fn].
 - If you select All, press [DISP/\$\overline{\

Printing photos as thumbnails

Print photos as thumbnails to check all the photos at once.

- 1 In Playback mode, press [MENU].
- 3 When the pop-up message appears, select **Yes**.

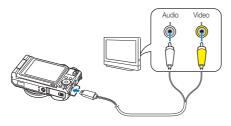


- You can take the memory card to a print shop that supports DPOF (Digital Print Order Format) or you can print photos directly through a DPOF-compatible printer at home.
- Photos with dimensions that are wider than the paper may be cut off on the left and right edges. Ensure that your photo dimensions are compatible with the paper you select.
- If you specify the print size, you can print photos only with DPOF 1.1-compatible printers.

Viewing files on a TV, HDTV, or 3D TV

Play back photos or videos by connecting your camera to a TV with the AV cable.

- 1 In Shooting or Playback mode, press [MENU].
- 2 Select ♦ → Video Out.
- 3 Select the video signal output for your country or region. (p. 153)
- 4 Turn off your camera and TV.
- 5 Connect your camera to your TV with the A/V cable.



- 6 Turn on your TV, and then select the A/V video source with the TV remote control.
- 7 Turn on your camera.
 - The camera automatically enters into Playback mode when you connect it to a TV.
- 8 View photos or play videos using the camera buttons.

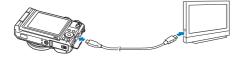


- Depending on the TV model, you may see some digital noise or part of an image may not appear.
- Images may not be centered on the TV screen depending on your TV settings.

Viewing files on an HDTV

You can view high-quality and uncompressed photos or videos on an HDTV using the optional HDMI cable. HDMI (High Definition Multimedia Interface) is supported by most HDTVs.

- 1 In Shooting or Playback mode, press [MENU].
- 2 Select ♣ → HDMI Size.
- 3 Select an HDMI resolution. (p. 153)
- 4 Turn off your camera and HDTV.
- 5 Connect your camera to your HDTV with the optional HDMI cable.



6 Turn on your camera.

- If you have an Anynet+ compatible Samsung HDTV and you have turned on your camera's Anynet+ function, the HDTV turns on automatically and displays the camera screen, while the camera automatically enters Playback mode.
- If Anynet+ is off in your camera or your TV does not have Anynet+, the TV does not turn on automatically. Turn the TV on manually.
- 7 View files using the buttons on your camera or, if the TV has Anynet+, the remote control of your HDTV.



- If your HDTV supports the Anynet+(CEC) profile, turn Anynet+ on in the camera's settings menu (p. 152) to control the camera and TV with the TV's remote control.
- Anynet+ lets you control all connected Samsung AV devices with the TV remote control.
- The time it takes for the camera to connect to your HDTV may vary
 with the type of a memory card you use. A faster memory card will not
 necessarily result in a faster HDMI transfer, because the main function
 of the card is to improve the transfer rate during shooting.

Viewing files on a 3D TV

You can view photos captured in 3D Photo or 3D Panorama mode on a 3D TV.

- 1 In Shooting or Playback mode, press [MENU].
- 2 Select ♦ → HDMI Size.
- 3 Select an HDMI resolution. (p. 153)
- 4 Turn off your camera and 3D TV.
- 5 Connect your camera to your 3D TV with the optional HDMI cable.



- 6 Turn on your camera.
 - If you have an Anynet+ compatible Samsung 3D TV and you have turned on your camera's Anynet+ function, the 3D TV turns on automatically and displays the camera screen, while the camera automatically enters Playback mode.
 - If Anynet+ is off in your camera or your TV does not have Anynet+, the TV does not turn on automatically. Turn the TV on manually.
- 7 Press [to switch to 3D TV Mode.
 - Press [] again to switch to 2D TV Mode.
- 8 Turn on your TV's 3D function.
 - · Refer to your TV's user manual for more details.
- 9 View 3D photos with the buttons on your camera or, if the TV has Anynet+, the remote control of your 3D TV.



- You cannot view an MPO file in 3D on TVs that do not support the file format.
- Use proper 3D glasses when you view an MPO file on a 3D TV.



Do not view the 3D images captured by your camera on a 3D TV or 3D monitor for an extended period of time. It may cause unpleasant symptoms, such as eyestrain, fatigue, nausea, and dizziness.

Transferring files to your computer

Connect the camera to the computer, to transfer files from the camera's memory card to the computer.

Transferring files to your Windows OS computer

Connect the camera to your computer as a removable disk.



Your computer must be running Windows XP, Windows Vista, or Windows 7 for you to connect the camera as a removable disk.

- 1 Turn off the camera.
- 2 Connect the camera to your computer with the USB cable.



You must plug the small end of the USB cable into your camera. If the cable is reversed, it may damage your files. The manufacturer is not responsible for any loss of data.



- 3 Turn on the camera.
 - The computer recognizes the camera automatically.

- 4 On your computer, select My Computer → Removable Disk → DCIM → 100PHOTO.
- 5 Drag or save files to your computer.

Disconnecting the camera (for Windows XP)

With Windows Vista and Windows 7, the methods for disconnecting the camera are similar.

- 1 If the status lamp on your camera is blinking, wait until it stops.
- 2 Click on the tool bar at the bottom right of your computer screen.



- 3 Click the pop-up message.
- 4 Click the message box that indicates the camera can be removed safely.
- 5 Remove the USB cable.

Transferring files to your Mac OS computer

When you connect the camera to a Macintosh computer, the computer will automatically recognize the device. You can transfer files directly from the camera to the computer without installing any programs.



Mac OS 10.5 or later is supported.

- 1 Turn off the camera.
- 2 Connect your camera to a Macintosh computer with the USB cable.



You must plug the small end of the USB cable into your camera. If the cable is reversed, it may damage your files. The manufacturer is not responsible for any loss of data.



- 3 Turn on the camera.
 - The computer recognizes the camera automatically and displays a removable disk icon.
- 4 Double-click the removable disk icon.
- 5 Drag or save files to your computer.

Using programs on the computer

You can view and edit files using the provided programs. You can also send the files to a PC wirelessly.

Installing CD-provided programs

- 1 Insert the installation CD in a compatible CD-ROM drive.
- 2 Select a language to install.
- 3 Select a program to install.
- 4 Follow the on-screen instructions.
- 5 Click Exit to complete the installation, and then restart your computer.

Programs contained on the CD

Program	Description	
iLauncher	View files with Multimedia Viewer, update the firmware of your camera, and provide a link to download the PC Auto Backup program.	
PC Auto Backup	Send the recorded files to a connected PC via Wi-Fi.	
Samsung RAW Converter	Edit RAW format files.	

Using iLauncher

iLauncher allows you to play back files with Multimedia Viewer and provides a link to download the PC Auto Backup program.

Windows OS requirements

Item		
CPU	Intel® Core™ 2 Duo 1.66 GHz or higher/ AMD Athlon X2 Dual-Core 2.2 GHz or higher	
RAM	Minimum 512 MB RAM (1 GB or more recommended)	
OS*	Windows XP SP2, Windows Vista, or Windows 7	
Hard disk capacity	250 MB or more (1 GB and above recommended)	
Others	CD-ROM drive 1024 X 768 pixels, 16-bit color display compatible monitor (1280 X 1024 pixels, 32-bit color display recommended) USB 2.0 port NVDIA Geforce 7600GT or higher/ ATI X1600 series or higher Microsoft DirectX 9.0c or higher	

^{*} A 32-bit version of iLauncher will be installed—even on 64-bit editions of Windows XP, Windows Vista, and Windows 7.



- The requirements are recommendation only. iLauncher may not work properly even when the computer meets the requirements, depending on the condition of your computer.
- If your computer does not meet the requirements, videos may not play correctly.



The manufacturer is not responsible for any damage that results from using unqualified computers such as a computer you assembled yourself.

Mac OS requirements

Item	Requirements		
OS	Mac OS 10.5 or higher		
RAM	Minimum 256 MB RAM (512 MB or more recommended)		
Hard disk capacity	Minimum 110 MB		
Others	USB port, CD-ROM drive		



If you use Mac OS computer, only Firmware Upgrade is available.

Opening iLauncher

On your computer, select Start \rightarrow All Programs \rightarrow Samsung \rightarrow iLauncher \rightarrow Samsung iLauncher. Or, click Applications \rightarrow Samsung \rightarrow iLauncher on your Mac OS computer.

Using Multimedia Viewer

Multimedia Viewer allows you to play back files. From the Samsung iLauncher screen, double-click Multimedia Viewer.



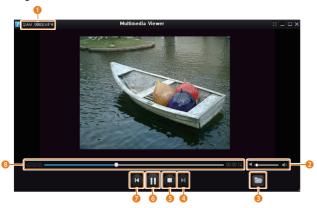
- · Multimedia Viewer supports the following formats:
 - Videos: MP4 (Video: H.264, Audio: AAC), WMV (WMV 7/8/9), AVI (MJPEG)
- Photos: JPG, GIF, BMP, PNG, TIFF, MPO
- Files that have been recorded with other manufacturers' devices may not play back smoothly.

Viewing photos



No.	Description
0	File name
2	Enlarged area
3	Histogram
4	Open the selected file.
6	Histogram button
6	Rotate to the left/Rotate to the right.
7	Move to the previous file/Move to the next file.
8	View the photo in the screen size.
9	View the photo in the original size.
10	Zoom in/Zoom out
•	Switches between 2D and 3D mode.

Viewing videos



No.	Description
0	File name
2	Adjust volume.
3	Open the selected file.
4	Move to the next file.
6	Stop
6	Pause
7	Move to the previous file.
8	Progress bar

Updating the firmware

From the Samsung iLauncher screen, double-click ${\bf Firmware}$ ${\bf Upgrade}.$

Downloading the PC Auto Backup program

From the Samsung iLauncher screen, double-click **PC Auto Backup**. For information about installing the PC Auto Backup program, refer to page 141.

Using Samsung RAW Converter

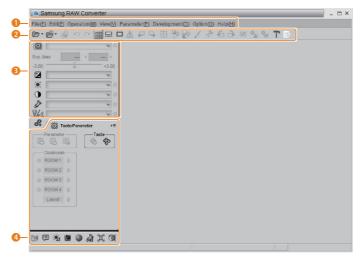
Photos captured by a camera are often transformed to JPEG formats and stored in the memory according to the settings of the camera at the time of shooting. RAW files are not transformed to JPEG formats and are stored in the memory without any changes. With Samsung RAW Converter, you can calibrate exposures, white balances, tones, contrasts, and colors of photos.

Opening Samsung RAW Converter

On your computer, select Start \rightarrow All Programs \rightarrow Samsung RAW Converter \rightarrow Samsung RAW Converter.

Using the Samsung RAW Converter Interface

For details about using Samsung RAW Converter, click Help - Open software manual.



No.	Description
0	Menu
2	Toolbar

No.	Description
3	Editing tools
4	Open/Close the fine adjustment window for the editing tools

Editing RAW format files

If you edit the RAW format files with the Samsung RAW Converter, you can maintain high image quality. You can also edit JPEG and TIFF format files.

To adjust the exposure of of an image

- 1 Select File → Open file and open a file.
- 2 From the editing tools, select .
- 3 Adjust the exposure with the scroll bar.



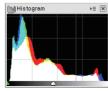


▲ Original image P Mode, Aperture: f=8, Shutter Speed: 1/15 sec, ISO=100

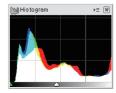


▲ Changed image after correcting the exposure

 You can view the brightness of the image from the histogram window.



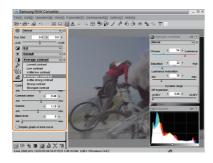
▲ Original image



▲ Changed image after correcting the exposure

To adjust the tone of an image

- 1 Select File → Open file and open a file.
- 2 From the editing tools, select .
- 3 Adjust the tone with the scroll bar.





▲ Original image P Mode, Aperture: f=8, Shutter Speed: 1/15 sec, ISO=100



▲ Changed image after correcting the contrast

Saving RAW files as JPEG/TIFF formats

- 1 Select File → Open file and open a file.
- 2 Select File → One scene development.
- 3 Select a file format (JPEG or TIFF) and select Development.



Wireless network

Learn how to connect to wireless local area networks (WLANs) and use functions.

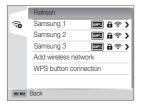
127 127	Sending photos or videos via email Changing email settings Sending photos or videos via email	
129 129 130	Uploading photos to a cloud server Using Auto Backup to send photos or	140
132	Installing the program for Auto Backup on your PC Sending photos or videos to a PC	14
133	Viewing photos or videos on a TV Link-enabled TV	140
135 135 135	Sending photos using Wi-Fi Direct About the Wake on LAN (WOL) feature	146
	127 129 129 130 132 133 135 135	127 Changing email settings 127 Sending photos or videos via email 129 Uploading photos to a cloud server 130 Using Auto Backup to send photos or videos 131 Installing the program for Auto Backup on your PC 132 Sending photos or videos to a PC 133 Viewing photos or videos on a TV Link-enabled TV 135 Sending photos using Wi-Fi Direct 136 About the Wake on LAN (WOL)

Connecting to a WLAN and configuring network settings

Learn to connect via an access point (AP) when you are in a range of a WLAN. You can also configure network settings.

Connecting to a WLAN

- 1 Rotate the mode dial to Wi-Fi.
- 2 Select (5), (0), (3), E, or (5).
- 3 Press [MENU], and then select Wi-Fi Setting.
 - In some modes, press [MENU] or follow the on-screen instructions until the AP Setting screen appears.
 - The camera automatically searches for available AP devices.
- 4 Select an AP.



- Select WPS button connection to connect to a WPS AP.
- · Select Refresh to refresh connectable APs.
- Select Add wireless network to add an AP manually.

Icon	Description
WP5	WPS AP
a	Secured AP
څ	Signal strength
>	Press [🛜] to open AP setting options

- When you select a secured AP, a pop-up window appears.
 Enter the required passwords to connect to the WLAN. For information about entering text, refer to "Entering text". (p. 130)
- When a login page appears, refer to "Using the login browser".
 (p. 129)
- When you select an unsecured AP, the camera will connect to the WLAN
- If you select a WPS profile supported AP, select WPS PIN, and then enter a PIN on the AP device. You can also connect to a WPS profile supported AP by selecting WPS button connection on the camera, and then pushing the WPS button on the AP device.

Setting network options

- 1 In the AP Setting screen, move to an AP, and then press [].
- 2 Select each option, and then enter the required information.

Option	Description
Authentication	Select a network authentication type.
Data Encryption	Select an encryption type.
Network Password	Enter the network password.
IP Setting	Set the IP address manually.
WPS PIN	Enter a PIN on the AP device.

Manually setting the IP address

- 1 In the AP Setting screen, move to an AP, and then press [].
- 2 Select IP Setting → Manual.
- 3 Select each option, and then enter the required information.

Option	Description
IP	Enter the static IP address.
Subnet Mask	Enter the subnet mask.
Gateway	Enter the gateway.
DNS Server	Enter the DNS address.

Using the login browser

You can enter your login information via the login browser when connecting to some APs, sharing sites, or cloud servers.

Button	Description
[DISP/\$/\$/♠]	Move to an item or scroll the page.
[OK]	Select an item.
[MENU]	Access the following options: Previous Page: Move to the previous page. Next Page: Move to the next page. Reload: Reload the page. Stop: Stop loading the page. Exit: Close the login browser.
[面]	Close the login browser.



- You cannot select some items depending on the page you connected to. This does not indicate a malfunction.
- The login browser may not close automatically after you log into some pages. If this occurs, close the login browser by pressing [m], and then proceed with the desired operation.
- It may take longer to load the login page due to the page size or network speed. If this occurs, wait until the login information input window appears.

Network connection tips

- The quality of the network connection will be determined by the AP.
- The further the distance between your camera and the AP, the longer it will take to connect to the network.
- If a nearby device is using the same radio frequency signal as your camera, it may interrupt your connection.
- If your AP name is not in English, the camera may not be able to locate the device or the name may appear incorrectly.
- For network settings or a password, contact your network administrator or network service provider.
- If a WLAN requires authentication from the service provider, you may not be able to connect to it. To connect the WLAN, contact your network service provider.
- Depending on the encryption type, the number of digits in the password may differ.
- · A WLAN connection may not be possible in all surroundings.
- The camera may display a WLAN enabled printer on the AP List. You cannot connect to a network via a printer.
- You cannot connect your camera to a network and a TV simultaneously. Also, you cannot view photos or videos on a TV while connected to a network.
- Connecting to a network may incur additional charges. Costs will vary based on the conditions of your contract.

- If you cannot connect to a WLAN, try another AP from the available AP list.
- · You can also connect to free WLANs in some foreign countries.
- A login page may appear when you select free WLANs provided by some network service providers. Enter your ID and password to connect to the WLAN. For information about registering or the service, contact the network service providers.
- Be cautious when you enter personal information for an AP connection. Do not enter any payment or credit card information on your camera. The manufacturer is not liable for any problem caused by entering such information.
- · Available network connections may differ by country.
- The WLAN feature of your camera must comply with radio transmission laws in your region. To ensure compliance, use the WLAN feature only in the country where you purchased the camera.
- The process for adjusting network settings may differ, depending on network conditions.
- Do not access a network that you are not authorized to use.
- Before you connect to a network, ensure your battery is fully charged.
- When a DHCP server is not available you must make an autoip.
 txt file and copy it to the inserted memory card to connect to the network using Auto IP.
- You cannot upload or send files captured in 3D Photo, 3D Panorama modes.
- Files that you transfer to another device may not be supported by the device. In this case, use a computer to playback the files

Entering text

Learn how to enter text. The icons in the table below let you move the cursor, change the case, etc. Rotate the navigation button or press [DISP/ $\mathbb{Z}/4$) \mathfrak{P} to move to a desired key, and then press [DK] to enter the key.



Icon	Description
←	Delete the last letter.
◆ ▶	Move the cursor.
1	In ABC mode, change the case.
.com	Enter ".com".
!@#	Switch to Symbol mode.

Icon	Description
ABC	Switch to ABC mode.
_	Enter a space.
Done	Save the displayed text.
0	View the entering text guide.



- You can use only the English alphabet, regardless of the display language.
 - To move to **Done** directly, press [**D**].
 - You can enter up to 128 characters.

Sending photos or videos to a smart phone

The camera connects to a smart phone that supports the MobileLink feature via a WLAN. You can easily send photos or videos to your smart phone.



- The MobileLink feature is supported by Galaxy series smart phones with the Android 2.2 OS or higher. If your smart phone uses the Android 2.1 OS, upgrade
 your smart phone to Android 2.2 or higher. This feature is also supported by the 7 and 10.1 inch Galaxy Tab. This feature may be supported by other devices with
 Android 2.2 or higher, but Samsung makes no guarantee of its functionality.
- You should install the Samsung MobileLink application on your phone or device before using this feature. You can download the application from Samsung Apps or Play Store.
- . When there are no files in the camera memory, you cannot use this feature.
- You can view up to 1,000 files and send up to 100 files at a time.
- 1 On the camera, rotate the mode dial to **Wi-Fi**.
- 2 On the camera, select 2.
 - If the pop-up message that prompts you to download the application appears, select Next.
- 3 On the camera, select All Images or Selected Images to select files to share with the smart phone.
 - If you selected Selected Images, touch Share on the camera after selecting files to share.
 - If you selected Selected Images, only the selected files will be displayed on the smart phone.

- 4 On the smart phone, turn on the Samsung MobileLink application.
 - Read the on-screen instructions carefully to select and connect to your camera.
 - · The smart phone can connect to only one camera at a time.
- 5 On the camera, select Yes.
- 6 On the smart phone, select files to send from the camera to the smart phone.
- 7 On the smart phone, select **Copy**.
 - · The camera will send the files.

Using a smart phone as a remote shutter release

The camera connects to a smart phone via a WLAN. Use the smart phone as a remote shutter release with the Remote Viewfinder feature. The captured photo will display on the smart phone.



- The Remote Viewfinder feature is supported by Galaxy series smart phones with the Android 2.2 OS or higher. If your smart phone uses the Android 2.1 OS, upgrade your smart phone to Android 2.2 or higher. This feature is also supported by the 7 and 10.1 inch Galaxy Tab. This feature may be supported by other devices with Android 2.2 or higher, but Samsung makes no quarantee of its functionality.
- You should install the Remote Viewfinder application on your phone or device before using this feature. You can download the application from Samsung Apps or Play Store.
- 1 On the camera, rotate the mode dial to Wi-Fi.
- 2 On the camera, select
 - If the pop-up message that prompts you to download the application appears, select Next.
- 3 On the smart phone, turn on the Remote Viewfinder application.
 - Read the on-screen instructions carefully to select and connect to your camera.
 - The smart phone can connect to only one camera at a time.

4 On the smart phone, set the following shooting options.

Icon	Description
\$ ^B	Flash option
COFF.	Timer option
МР	Photo size

- While using this feature, some buttons are not available on your camera.
- The zoom button and the shutter button on your smart phone will not function when using this feature.
- Remote Viewfinder mode supports the n and n photo sizes only.

- 5 On the smart phone, touch and hold to focus.
 - · The focus is automatically set to multi-AF.
- 6 Release to capture the photo.
 - · The photo will be saved in your camera.
 - Touch the photo in the bottom of the screen to save it to the smart phone. The photo will be resized to 640 X 360.



- When you use this feature, the ideal distance between the camera and the smart phone may vary, depending on your surroundings.
- . The smart phone must be within 7 m of the camera to use this feature.
- It will take some time to capture the photo after you release on the smart phone.
- . The Remote Viewfinder function will deactivate when:
- there is an incoming call on the smart phone
- either the camera or the smart phone turns off
- the memory is full
- either device loses its connection to the WLAN
- the Wi-Fi connection is poor or unstable

Using photo or video sharing websites

Upload your photos or videos to file sharing websites. Available websites will be displayed on your camera.

Accessing a website

- 1 Rotate the mode dial to Wi-Fi.
- 2 Select \(\bigsirems \).
- 3 Select a website.
 - The camera will automatically attempt to connect to a WLAN via the most recently connected AP device.
 - If the camera has not previously been connected to a WLAN, it will search for available AP devices. (p. 127)
- 4 Enter your ID and password, and then select **Login**.
 - For information about entering text, refer to "Entering text".
 (p. 130)
 - To select an ID from the list, select ▼ → an ID.
 - If you have previously logged in to the website, you may be logged in automatically.



You must have an existing account on the file sharing website to use this feature.

Uploading photos or videos

- 1 Access the website with your camera.
- 2 Scroll to the files you want to upload, and then press [OK].
 - You can select up to 20 files. The total size must be 10 MB or less.
- 3 Select Upload.
 - If you connected to the Facebook, select Upload → Upload.
 - If you connected to the Facebook, you can enter your comments by selecting the Comment box. For information about entering text, refer to "Entering text". (p. 130)



- You cannot upload files if the file size exceeds the limit. The maximum
 photo resolution you can upload is 2M, and the longest video you can
 upload is a video recorded using all if the selected photo resolution
 is higher than 2M, it will be automatically resized to a lower resolution.
- The method of uploading photos or videos may differ and some functions may not be available depending on the selected website.
- If you cannot access a website because of firewall or user authentication settings, contact your network administrator or network service provider.
- Uploaded photos or videos may be automatically titled with the date they were captured.
- The speed of your internet connection may affect how quickly photos upload or web pages open.
- When there are no files in the camera memory, you cannot use this feature.
- You can also upload photos or videos to file sharing websites in Playback mode by pressing [MENU], and then selecting \$\square\$ a desired website.
- · Your camera's model name will be the album title.

Sending photos or videos via email

You can change settings in the email menu, and send photos or videos stored on the camera via email.

Changing email settings

In the email menu, you can change settings for storing your information. You can also set or change the email password. For information about entering text, refer to "Entering text". (p. 130)

Storing your information

- 1 Rotate the mode dial to Wi-Fi.
- 2 Select .
 - The camera will automatically attempt to connect to a WLAN via the most recently connected AP device.
 - If the camera has not previously been connected to a WLAN, it will search for available AP devices. (p. 127)
- 3 Press [MENU].
- 4 Select Sender Setting.

5 Select the Name box, enter your name, and then select Done.



- 6 Select the Email box, enter your email address, and then select Done.
- 7 Select Save to save your changes.
 - To delete your information, select **Reset**.

Setting an email password

- 1 Rotate the mode dial to Wi-Fi.
- 2 Select .
 - The camera will automatically attempt to connect to a WLAN via the most recently connected AP device.
 - If the camera has not previously been connected to a WLAN, it will search for available AP devices. (p. 127)
- 3 Press [MENU].
- 4 Select Setting Password → On.
 - To deactivate the password, select Off.
- 5 When the pop-up appears, press [OK].
- 6 Enter a 4-digit password.
- 7 Enter the password again.
- When the pop-up appears, press [0K].



If you lost your password, you can reset it by selecting Reset on the password input screen. When you reset the information, previously saved user's setting information, email address, and recently sent email list will be deleted.

Changing the email password

- Rotate the mode dial to Wi-Fi.
- 2 Select .
 - The camera will automatically attempt to connect to a WLAN via the most recently connected AP device.
 - If the camera has not previously been connected to a WLAN, it will search for available AP devices. (p. 127)
- 3 Press [MENU].
- Select Change Password.
- Enter your current 4-digit password.
- Enter a new 4-digit password.
- Enter the new password again.
- When the pop-up appears, press [0K].

Sending photos or videos via email

You can send photos or videos stored on the camera via email. For information about entering text, refer to "Entering text". (p. 130)

- 1 Rotate the mode dial to Wi-Fi.
- 2 Select .
 - The camera will automatically attempt to connect to a WLAN via the most recently connected AP device.
 - If the camera has not previously been connected to a WLAN, it will search for available AP devices. (p. 127)
- 3 Select the Sender box, enter your email address, and then select Done.
 - If you have previously saved your information, it will be inserted automatically. (p. 137)
- 4 Select the Recipient box, enter an email address, and then select Done.
 - To use an address from the list of previous recipients, select
 ▼ → an address.
 - Select + to add additional recipients. You can input up to 30 recipients.
 - Select X to delete an address from the list.

- 5 Select Next.
- 6 Scroll to files to send, and then press [OK].
 - You can select up to 20 files. The total size must be 7 MB or less.
- 7 Select Next.
- 8 Select the Comment box, enter your comments, and then select Done.
- 9 Select Send.



- Even if a photo appears to have transferred successfully, errors with the recipient's email account may cause the photo to be rejected or recognized as spam.
- You may not be able to send an email if no network connection is available or if your email account settings are incorrect.
- You cannot send an email if the file size exceeds the limit. The
 maximum photo resolution you can send is 2M, and the longest video
 you can upload is a video recorded using 2M If the selected photo
 resolution is higher than 2M, it will be automatically resized to a lower
 resolution.
- If you cannot send an email because of firewall or user authentication settings, contact your network administrator or network service provider.
- When there are no files in the camera memory, you cannot use this feature.

Uploading photos to a cloud server

You can upload your photos to SkyDrive. To upload photos, you must visit the Microsoft website and register before connecting your camera.

- 1 Rotate the mode dial to Wi-Fi.
- 2 Select
- 3 Select SkyDrive.
 - If the pop-up message that prompts you to create an account appears, select OK.
 - The camera will attempt to connect to a WLAN via the most recently connected AP.
 - If the camera has not previously been connected to a WLAN, it will search for available AP devices. (p. 127)

- 4 Login with your ID and password.
 - For information about entering text, refer to "Entering text".
 (p. 130)
 - If you connected to SkyDrive, refer to "Using the login browser". (p. 129)
- 5 Scroll to the photos you want to upload, and then press [0K].
- 6 Select Upload.



- When there are no photos in the camera memory, you cannot use this feature.
- When you upload photos to SkyDrive, they will be resized to 2M while maintaining its aspect ratio.

Using Auto Backup to send photos or videos

You can send photos or videos that you captured with the camera to a PC wirelessly. The Auto Backup feature works only with the Windows OS

Installing the program for Auto Backup on your PC

- Install iLauncher on the PC. (p. 117)
- Connect the camera to the PC with the USB cable.
- 3 When the Auto Backup program icon appears, double-click it.
 - The Auto Backup program is installed on the PC. Follow the on-screen instructions to complete the installation.
- 4 Remove the USB cable.
- 5 Connect the camera to the PC again with the USB cable.
 - · The camera stores information about the PC, so that the camera can send files to the PC.



Before installing the program, ensure that the PC is connected to a network. If no internet connection is available, you must install the program from the provided CD

Sending photos or videos to a PC

- Rotate the mode dial to Wi-Fi.
- Select
 - If the guide message appears, press [OK].
- 3 Press [MENU] to set options.
 - · To turn off your PC automatically after the transfer is complete, select Shut down PC after backup → On.
- 4 Press [OK] to start the backup.
 - To cancel sending, press [OK].
 - · You cannot select individual files to backup. This function backs up only new files on the camera.
 - · The backup's progress will be shown on the PC monitor.
 - · When the transfer is completed, the camera will turn off automatically in approximately 30 seconds. Select Cancel to return to the previous screen and prevent the camera from turning off automatically.



- If the PC supports the Wake on LAN (WOL) feature, you can turn on the PC automatically by searching for the PC from your camera.
 (p. 146)
- When you connect the camera to the WLAN, select the AP that is connected to the PC.
- The camera will search for available access points even if you are connecting to the same access point again.
- If you turn off the camera or remove the battery while sending files, the file transfer will be interrupted.
- You can connect only one camera to the PC at a time for sending files.
- . The backup may be canceled due to network conditions.
- Photos or videos can be sent to a PC one time only. Files cannot be sent again even if you reconnect your camera to another PC.
- When there are no files in the camera memory, you cannot use this feature.
- You must turn off Windows Firewall and any other firewalls before using this feature.
- · You can send up to 1,000 files.
- On the PC software, the server name must be entered in the Latin alphabet and can contain no more than 48 characters.
- When multiple file types are created at once, only the image files (JPG) will be sent to the PC with this feature.

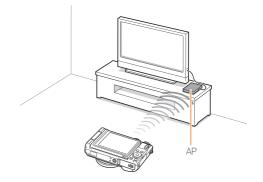
Viewing photos or videos on a TV Link-enabled TV

TV Link is a technology for sharing media files between a camera and TV connected to the same AP device. With this technology, you can view your photos or videos on a widescreen TV.

1 Rotate the mode dial to Wi-Fi.

- 2 Select No.
 - · If the guide message appears, press [OK].
 - The camera will automatically attempt to connect to a WLAN via the most recently connected AP device.
 - If the camera has not previously been connected to a WLAN, it will search for available AP devices. (p. 127)
- 3 Connect your TV to a wireless network via an AP device.
 - · Refer to your TV's user manual for more information.

- 4 On the TV, search for the camera and browse the shared photos or videos.
 - For information about searching for the camera and browsing the photos or videos on the TV, refer to the TV user manual.
 - Videos may not play smoothly depending on the type of TV or network condition. If this happens, re-record the video in VGA or an quality and play it again. If videos do not play smoothly on your TV over the wireless connection, try connecting the camera to the TV with an AV cable.





- · You can share up to 1,000 photos or videos.
- On a TV screen, you can view only photos or videos captured with your camera.
- The range of the wireless connection between your camera and a TV may vary depending on the specifications of the AP.
- If the camera is connected to 2 TVs, playback may be slower.
- Photos or videos will be shared in their original sizes.
- · You can use this feature only with TV Link-enabled TVs.
- Shared photos or videos will not be stored on the TV, but they can be stored in the camera to meet the TV's specifications.
- Transferring photos or videos to the TV may take some time depending on the network connection, the number of files to be shared, or sizes of the files.
- If you power off the camera abnormally while viewing photos or videos on a TV (for example, by removing the battery), the TV considers the camera to still be connected.
- The order of photos or videos on the camera may be different than on the TV.
- Depending on the number of photos or videos you want to share, it
 may take some time to load your photos or videos and complete the
 initial set-up process.

- While viewing photos or videos on the TV, continuously using the TV remote or performing additional operations on the TV may prevent this feature from working properly.
- If you reorder or sort files on the camera while viewing them on a TV, you must repeat the initial set-up process to update the list of files on the TV.
- When there are no files in the camera memory, you cannot use this feature.
- We recommend you use a network cable to connect your TV to your AP. This will minimize any video 'Stuttering' you may experience when streaming content.

Sending photos using Wi-Fi Direct

When the camera connects via a WLAN to a device that supports the Wi-Fi Direct function, you can send photos to the device. This feature may not be supported on some devices.

- 1 On the device, turn on the Wi-Fi Direct option.
- 2 On the camera, in Playback mode, scroll to a photo.
- 3 Press [MENU], and then select

 → Wi-Fi Direct.
 - When in the single image view, you can send only one photo at a time.
 - When in thumbnails view, you can select multiple photos by scrolling to thumbnails, and then pressing [OK]. Select Next when you are finished selecting photos.
- 4 Select the device from the camera's list of Wi-Fi Direct devices.
 - · Ensure that the device's Wi-Fi Direct option is turned on.
 - You can also select your camera from the device's list of Wi-Fi Direct devices.

- 5 On the device, allow the camera to connect to the device.
 - · The photo will be sent to the device.



- When there are no photos in the camera memory, you cannot use this feature.
- If you cannot connect to a Wi-Fi Direct device, update the device with the latest firmware. This feature may not be supported on some devices.

About the Wake on LAN (WOL) feature

With the WOL feature, you can automatically turn on or wake up a PC with your camera. This feature has been available for Samsung desktop PCs for the last 5 years (not available for all-in-one PCs).



Any changes to your PC's BIOS settings other than the ones described below may damage your PC. The manufacturer is not responsible for damage caused by your changing your PC's BIOS settings.



Setting the PC to wake up from sleep mode

- 1 Click Start, and then open the Control Panel.
- 2 Configure the network connection.
- Windows 7:
 - Click Network and Internet → Network and Sharing Center → Change adapter settings.
 - · Windows Vista:
 - Click Network and Internet → Network and Sharing Center → Manage network connections.
 - · Windows XP:
 - Click Network and Internet Connection → Network Connection.

- 3 Right click Local Area, and then click Properties.
- 4 Click Configure → the Power manage tab → Allow this device to wake the computer.
- 5 Click OK.
- 6 Restart the PC.

Setting the PC to turn on

- 1 Turn on the PC, and then press F2 while the PC is booting.
 - · The BIOS setting menu will appear.
- 2 Select Advanced tab → Power management Setup.
- 3 Select Resume on PME → Enabled.
- 4 Press F10 to save your changes, and then continue booting.
- 5 Click Start, and then open the Control Panel.
- 6 Configure the network connection.
 - Windows 7: Click Network and Internet → Network and Sharing Center → Change adapter settings.
 - Windows Vista:
 Click Network and Internet → Network and Sharing
 Center → Manage network connections.
 - Windows XP: Click Network and Internet Connection → Network Connection.

- 7 Select the drivers for the network adapter.
- 8 Click the **Advanced** tab, and then set the WOL menus.



- You cannot use this feature across a firewall or if a security program has been installed.
- To turn on the PC with the WOL feature, the PC must have an active connection to the LAN. Ensure that the indicator light on the PC's LAN port is on indicating that the LAN connection is active.
- Depending on your PC model, the camera may only be able to wake the PC.
- Depending on your PC's OS or drivers, the names of the WOL setting menu may vary.
 - examples of setting menu names: Enable PME, Wake on LAN, etc.
 - examples of setting menu values: Enable, Magic packet, etc.

Settings

Refer to options to configure your camera's settings.

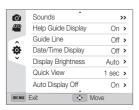
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Settings menu

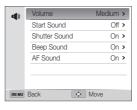
Learn to configure your camera's settings.

Accessing the settings menu

- 1 In Shooting or Playback mode, press [MENU].
- 2 Select ♦ → an item.



3 Select an option.



4 Press [MENU] to return to the previous screen.

Using the settings menu

* Default

Item	Description	
Sounds	Set various camera sounds and the volume. Volume: Set the volume of all sounds. (Off, Low, Medium*, High) Start Sound: Set to emit a sound when you turn on your camera. (Off*, On) Shutter Sound: Set to emit a sound when you press the shutter button. (Off, On*) Beep Sound: Set to emit a sound when you press the buttons or switch modes. (Off, On*) AF Sound: Set to emit a sound when you half-press the shutter button. (Off, On*)	
Help Guide Display	Display a brief description of an option a menu. (Off, On*)	
Guide Line	Select a guide to help you compose a scene. (Off*, 3 X 3, 2 X 2, Cross, Diagonal)	
Date/Time Display	Set whether or not to display the date and time on the camera's display. (Off*, On)	

	* Default		
Item	Description		
Display Brightness	Adjust the brightness of the screen. (Auto*, Dark, Normal, Bright) Normal is fixed in Playback mode even if you have selected Auto.		
Quick View	Set the duration for reviewing a captured image before returning to the Shooting mode. (Off, 1 sec*, 3 sec)		
Auto Display Off	If you perform no operations for 60 seconds, the camera screen turns off automatically and the status lamp blinks. (Off, On*) • When the screen turns off automatically, press any button other than [POWER] to resume using the camera. • Even if you do not set this function, the screen will dim 60 seconds after the last operation to save power.		
Network Information	See the Mac address and serial number of your camera.		
Language	Set a language for the display text.		

	* Default		* Defaul
Item	Description	Item	Description
Date and Time	Time Zone: Set the time zone for your location. When you travel to another country, select Visit, and then select the appropriate time zone. (Home*, Visit) Date/Time Set: Set the date and time. Date Type: Set a date format. (YYYY/MM/DD, MM/DD/YYYY*, DD/MM/YYYY) The default date type may differ depending on the language selected. Time Type: Set a time format. (12 Hr*, 24 Hr) Imprint: Set whether or not to display the date and time on captured photos. (Off*, Date, Date & Time) The date and time will be displayed on the bottom right comer of the photo. Some printer models may not print the date and time properly.	File No.	Specify how to name files. Reset: Set the file number to start from 0001 when you insert a new memory card, format a memory card, or delete all files. Series*: Set the file number to resume from the previous file number when you insert a new memory card, format a memory card, or delete all files. The default name of the first folder is 100PHOTO and the default name of the first file is SAM_0001. The file number increases one at a time from SAM_0001 to SAM_9999. The folder numbers increase one at a time from 100PHOTO(SAM_0001-SAM_0999) to 999PHOTO(SAM_0001-SAM_0999). The maximum number of files that can be stored in one folder is 1,000. The camera defines file names according to the Design rule for Camera File system (DCF)

	* Default		
	Description		
	Set the camera to automatically turn off when you perform no operations for a specified period. (Off, 1 min, 3 min*, 5 min, 10 min)		
Auto Power Off	Your settings will not change when you replace the battery. The camera will not automatically turn off when the camera is connected to a computer or WLAN, and when you are playing a slide show or videos.		
Smart Link (Wi-Fi Button)	Set a Wi-Fi function to launch when you press []. (MobileLink*, Remote Viewfinder, Social Sharing, Email, Cloud, Auto Backup, TV Link)		
AF Lamp	Set a light to automatically turn on in dark places to help you focus. (Off, On*)		
Conversion lens	Set to use your conversion lens if you have one. (Off*, On)		

	* Default	
Item	Description	
	Format the memory card. Formatting will delete all files, including protected files. (Yes, No)	
Format	Errors can occur if you use a memory card formatted by another brand of camera, a memory card reader, or a computer. Please format memory cards in the camera before using them to capture photos.	
Reset	Reset menus and shooting options. Date, time, language, and video output settings will not be reset. (Yes, No)	
Anynet+ (HDMI-CEC)	Turn on to control the camera with a TV remote control when you connect it to an HDTV that supports the Anynet+(CEC) profile. Off: View files without using an HDTV remote control. On*: Control the camera with an HDTV remote control.	

* Default

Item	Description	
HDMI Size	Set the resolution of photos when the camera plays back files on an HDTV via the HDMI cable. (NTSC: 1080i*, 720p, 480p/ PAL: 1080i*, 720p, 576p) • If the HDTV does not support the selected resolution, the HDTV automatically selects the next lower resolution. • If you select 480p or 576p, the playback menus and Smart Album will not be available when you connect the camera to a TV.	
Video Out	Set the video signal output for your region. NTSC: USA, Canada, Japan, Korea, Taiwan, Mexico, etc PAL (supports only BDGHI): Australia, Austria, Belgium, China, Denmark, England, Finland, France, Germany, Italy, Kuwait, Malaysia, Netherlands, New Zealand, Norway, Singapore, Spain, Sweden, Switzerland, Thailand, etc	
Open Source Licenses	Show the Open source licenses information.	

Appendixes

Get information about error messages, specifications, and maintenance.

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Error messages

When the following error messages appear, try these remedies.

Error message	Suggested remedies		
Card Error	Turn off your camera, and then turn it on again. Remove your memory card, and then insert it again. Format your memory card.		
Card Locked	You can lock an SD, SDHC, or SDXC card to prevent files from being deleted. Unlock the card when shooting.		
Card not supported.	The inserted memory card is not supported by your camera. Insert a SD, SDHC, or SDXC memory card.		
Connection failed.	The camera cannot connect to the network using the selected access point. Select another AP and try again. The camera has failed to connect to the other devices. Try connecting again.		

Error message	Suggested remedies		
DCF Full Error	File names do not match the DCF standard. Transfer the files from the memory card to your computer and format the card. Then, open the Settings menu and select File No. → Reset . (p. 151)		
Device disconnected.	Network connection disconnected while transferring photos. Select a TV Link device again.		
File Error	Delete the damaged file or contact a service center.		
File system not supported.	Your camera does not support the FAT file structure of the inserted memory card. Format the memory card on the camera.		
Initialization failed.	Turn on TV Link enabled devices on the network. The camera has failed to locate a TV Linkenabled device.		
Invalid password.	The password for transferring files to another camera is wrong. Enter the correct password again.		

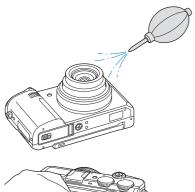
Error message	Suggested remedies		
Low Battery	Insert a charged battery or recharge the battery.		
Memory Full	Delete unnecessary files or insert a new memory card.		
No Image File	Capture photos or insert a memory card that contains some photos.		
Photo transfer failed.	Network connection disconnected while transferring photos. Try turning on the TV Link feature again.		
	The camera has failed to send a photo to the other devices. Try sending again.		
Transfer failed.	The camera has failed to send an email or transfer a photo to a TV Link device. Check the network connection and try again.		

Camera maintenance

Cleaning your camera

Camera lens and display

Use a blower brush to remove dust and wipe the lens gently with a soft cloth. If any dust remains, apply lens cleaning liquid to a piece of lens cleaning paper and wipe gently.





Camera body

Wipe gently with a soft, dry cloth.





- Never use benzene, thinners, or alcohol to clean the device. These solutions can damage the camera or cause it to malfunction.
- Do not press on the lens cover or use a blower brush on the lens cover.

Using or storing the camera

Inappropriate places to use or store the camera

- Avoid exposing the camera to very cold or very hot temperatures.
- Avoid using your camera in areas with extremely high humidity, or where the humidity changes drastically.
- Avoid exposing the camera to direct sunlight and storing it in hot, poorly-ventilated areas, such as in a car during summer time.
- Protect your camera and the display from impact, rough handling, and excessive vibration to avoid serious damage.
- Avoid using or storing your camera in dusty, dirty, humid, or poorly-ventilated areas to prevent damage to moving parts and internal components.
- Do not use your camera near fuels, combustibles, or flammable chemicals. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the camera or its accessories.
- . Do not store the camera where there are mothballs.

Using on beaches or shores

- Protect your camera from sand and dirt when you use it on beaches or in similar areas.
- Your camera is not waterproof. Do not handle the battery, adapter, or memory card with wet hands. Operating the camera with wet hands may cause damage to your camera.

Storing for extended period of time

- When you store the camera for an extended period, place it in a sealed container with an absorbent material, such as silica gel.
- Remove the batteries from your camera when storing it for an extended period. Installed batteries may leak or corrode over time and cause serious damage to your camera.
- Over time, unused batteries will discharge and must be recharged before use.
- The present date and time can be initialized when the camera is turned on after the camera and battery have been separated for over 40 hours.

Using the camera with caution in humid environments

When you transfer the camera from a cold environment to a warm one, condensation can form on the lens or internal components of the camera. In this situation, turn off the camera and wait for at least 1 hour. If condensation forms on the memory card, remove the memory card from the camera and wait until all moisture has evaporated before reinserting it.

Other cautions

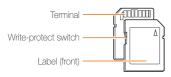
- Do not swing your camera by the strap. This may cause injury to yourself or others or damage to your camera.
- Do not paint your camera, as paint can clog moving parts and prevent proper operation.
- . Turn off the camera when not using it.
- Your camera contains delicate parts. Avoid impacts to the camera
- Protect the display from external force by keeping it in the case when not in use. Protect the camera from scratches by keeping it away from sand, sharp implements, or loose change.
- Do not use the camera if the screen is cracked or broken.
 Broken glass or acrylic could cause injury to your hands and face. Take the camera to a Samsung service center to have it repaired.

- Never place cameras, batteries, chargers, or accessories near, on, or in heating devices, such as microwave ovens, stoves, or radiators. These devices may be deformed and can overheat and cause a fire or explosion.
- Do not expose the lens to direct sunlight, as this may discolor the image sensor or cause it to malfunction.
- Protect the lens from fingerprints and scratches. Clean the lens with a soft, clean, debris-free lens cloth.
- The camera may turn off if struck or dropped. This is to protect the memory card. Turn on the camera to use it again.
- While you use the camera, it may heat up. This is normal and should not affect your camera's lifespan or performance.
- When you use the camera in low temperatures, it may take some time to turn on, the color of the display may be changed temporarily, or after-images may appear. These conditions are not malfunctions and they will correct themselves when the camera is returned to milder temperatures.
- Paint or metal on the outside of the camera may cause allergies, itchy skin, eczema, or swelling for people with sensitive skin. If you experience any of these symptoms, stop using the camera immediately and consult a doctor.
- Do not insert foreign objects into any of your camera's compartments, slots, or access points. Damage due to improper use may not be covered by your warranty.
- Do not allow unqualified personnel to service the camera or attempt to service the camera yourself. Any damage that results from unqualified service is not covered by your warranty.

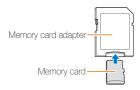
About memory cards

Supported memory cards

This product supports SD (Secure Digital), SDHC (Secure Digital High Capacity), SDXC (Secure Digital extended Capacity), microSD, microSDHC, or microSDXC memory cards.



You can prevent files from being deleted by using the write-protect switch on an SD, SDHC, or SDXC card. Slide the switch down to lock or slide it up to unlock. Unlock the card when capturing photos and videos.



To use micro memory cards with this product, a PC, or a memory card reader, insert the card into an adapter.

Memory card capacity

The memory capacity may differ depending on shooting scenes, shooting conditions, or a memory card. These capacities are based on a 2 GB SD card:

Photo

Size	Super Fine	Fine	Normal
12m	277	313	503
10mp	254	349	558
MP	286	392	623
8 _M	335	457	721
Вм	333	456	719
Sm	512	691	1,060
(ME	819	1,081	1,588
2 _M	1,095	1,418	2,009
Im	2,165	2,610	3,284

Size	RAW	RAW + S.Fine	RAW + Fine	RAW + Normal
12m	73	51	59	69
10 _{MP}	74	54	61	71
MP	76	57	64	73
8 _M	78	60	67	75
Вм	78	60	67	75
Sm	83	69	74	80
∃m	87	77	81	85
2	89	81	84	87
lm	91	87	88	90

Video

	480fps			
FULL 1920 X 1080	-	-	-	Approx. 19' 05"
HD 1280 X 720	-	-	-	Approx. 29' 38"
VGA 640 X 480	-	-	-	Approx. 57' 16"
For Sharing	-	-	-	Approx. 716' 50"
640 X 480	-	-	Approx. 24' 52"	-
384 X 288	-	Approx. 32' 49"	-	-
1 92 192 X 144	Approx. 26' 02"	-	-	-

The figures above are measured without using the zoom function. Available recording time may vary if you use the zoom. Several videos were recorded in succession to determine the total recording time.

Cautions when using memory cards

- Avoid exposing memory cards to very cold or very hot temperatures (below 0 °C/32 °F or above 40 °C/104 °F).
 Extreme temperatures can cause memory cards to malfunction.
- Insert a memory card in the correct direction. Inserting a memory card in the wrong direction may damage your camera and memory card.
- Do not use memory cards that have been formatted by other cameras or by a computer. Reformat the memory card with your camera.
- Turn off the camera when you insert or remove the memory card.
- Do not remove the memory card or turn off your camera while the lamp is blinking, as this may damage your data.
- When the lifespan of a memory card has expired, you cannot store any more photos on the card. Use a new memory card.
- Do not bend, drop, or subject memory cards to heavy impact or pressure.
- Avoid using or storing memory cards near strong magnetic fields.
- Avoid using or keeping memory cards in areas with high temperature, high humidity, or corrosive substances.

- Prevent memory cards from making contact with liquids, dirt, or foreign substances. If dirty, wipe the memory card clean with a soft cloth before you insert the memory card in your camera.
- Do not allow liquids, dirt, or foreign substances to come in contact with memory cards or the memory card slot. Doing so may cause memory cards or the camera to malfunction.
- When you carry a memory card, use a case to protect the card from electrostatic discharges.
- Transfer important data to other media, such as a hard disk, CD, or DVD.
- When you use the camera for an extended period, the memory card may become warm. This is normal and does not indicate a malfunction.



The manufacturer is not responsible for any loss of data.

About the battery

Use only Samsung-approved batteries.

Battery specifications

Specification	Description
Model	SLB-10A
Туре	Lithium-ion battery
Cell capacity	1,030 mAh
Voltage	3.7 V
Charging time* (when the camera is switched off)	Approximately 240 min

^{*} Charging the battery by connecting it to a computer may take longer.

Battery life

Average shooting time/ Number of photos		Test conditions (when the battery is fully charged)	
		The battery life was measured under the following conditions: in P mode, in darkness, resolution, Fine quality, OIS on.	
	Approximately	Set the flash option to Fill in , take a single shot, and zoom in or out.	
Photos	130 min/ Approximately	Set the flash option to Off , take a single shot, and zoom in or out.	
26	260 photos	Perform steps 1 and 2, waiting So seconds between each step. Repeat the process for 5 minutes, and then turn off the camera for 1 minute.	
		4. Repeat steps 1 to 3.	
Videos	Approximately 90 min	Record videos at Em resolution and 30 FPS.	

- The figures above are measured by Samsung's standards. Your results may differ, depending on your actual usage.
- Several videos were recorded in succession to determine the total recording time.
- When using network functions, the battery will be depleted more quickly.

Low battery message

When the battery has fully discharged, the battery icon will turn red and the "Low Battery" message will appear.

Notes about using the battery

- Avoid exposing batteries to very cold or very hot temperatures (below 0 °C/32 °F or above 40 °C/104 °F). Extreme temperatures can reduce the charging capacity of your batteries
- When you use the camera for an extended period, the area around the battery chamber may become warm. This does not affect the normal use of the camera.
- Do not pull the power supply cord to disconnect the plug from the power outlet, as this may cause a fire or electric shock.
- In temperatures below 0 °C/32 °F, battery capacity and battery life may decrease.
- Battery capacity may decrease in low temperatures but will return to normal in milder temperatures.

Cautions about using the battery

Protect batteries, chargers, and memory cards from damage

Prevent batteries from making contact with metal objects, as this can create a connection between the + and – terminals of your battery and lead to temporary or permanent battery damage and may cause a fire or electric shock.

Notes about charging the battery

- If the indicator light is off, make sure that the battery is inserted correctly.
- If the camera is on while charging, the battery will not charge. Turn off the camera before charging the battery.
- Do not use your camera when you charge the battery. This may cause a fire or electric shock.
- Do not pull the power supply cord to disconnect the plug from the power outlet, as this may cause a fire or electric shock.
- Let the battery charge for at least 10 minutes before turning on the camera.
- If you connect the camera to an external power source while the battery is depleted, using some high energy-consuming functions will cause the camera to turn off. To use the camera normally, recharge the battery.

Camera maintenance

- If you reconnect the power cable when the battery is fully charged, the status lamp turns on for approximately 30 minutes.
- Using the flash or recording videos depletes the battery quickly. Charge the battery until the red status lamp turns off.
- If the status lamp blinks in red, reconnect the cable, or remove the battery and insert it again.
- If you charge the battery when the cable is overheated or the temperature is too high, the status lamp may blink in red. Charging will start when the battery cools down.
- Overcharging batteries may shorten battery life. After charging is finished, disconnect the cable from your camera.
- Do not bend or place heavy objects on the AC cable. Doing so may damage the cable.

Notes about charging with a computer connected

- Use only the provided USB cable.
- · The battery may not charge when:
 - you use a USB hub
 - other USB devices are connected to your computer
 - you connect the cable to the port on the front side of your computer
 - the USB port of your computer does not support the power output standard (5 V, 500 mA)

Handling and disposing of batteries and chargers with care

- Never dispose of batteries in a fire. Follow all local regulations when you dispose of used batteries.
- Never place batteries or cameras on or in heating devices, such as microwave ovens, stoves, or radiators. Batteries may explode when they are overheated.



Personal injury or death can occur if the battery is handled carelessly or improperly. For your safety,

follow these instructions for proper battery handling:

- The battery can ignite or explode if not handled properly. If you notice any deformities, cracks, or other abnormalities in the battery, immediately discontinue use of the battery and contact a service center.
- Use only authentic, manufacturer-recommend battery chargers and adapters and charge the battery only by the methods described in this user manual.
- Do not place the battery near heating devices or expose it to excessively warm environments, such as the inside of an enclosed car in the summertime.
- · Do not place the battery in a microwave oven.
- Avoid storing or using the battery in hot, humid places, such as spas or shower enclosures.
- Do not rest the device on flammable surfaces, such as bedding, carpets, or electric blankets for a prolonged period.
- When the device is switched on, do not leave it in any confined space for a prolonged period.
- Do not allow battery terminals to come in contact with metallic objects, such as necklaces, coins, keys, or watches.
- Use only authentic, manufacturer-recommended, Lithiumion replacement batteries.

- Do not disassemble or puncture the battery with any sharp object.
- Avoid exposing the battery to high pressure or crushing forces.
- Avoid exposing the battery to major impacts, such as dropping it from high places.
- Do not expose the battery to temperatures of 60 °C (140 °F) or above.
- Do not allow the battery to come in contact with moisture or liquids.
- Do not expose the battery to sources of excessive heat such as sunshine, fire or the like.

Disposal guidelines

- · Dispose of the battery with care.
- · Do not dispose of the battery in a fire.
- Disposal regulations may differ by country or region.
 Dispose of the battery in accordance with all local and federal regulations.

Guidelines for charging the battery

Charge the battery only by the method described in this user manual. The battery can ignite or explode if not charged properly.

Using optional accessories

Using optional flash units

Attach an optional flash unit to the camera accessory shoe. Remove the accessory shoe cover and mount the flash unit on the accessory shoe.





- Your camera is compatible with the following types of flash units: SFF42A
- For details about the flash unit, see the manual provided with the flash unit.
- When the optional flash unit is attached, do not pop the default flash up.

Using an optional optical viewfinder

Attach an optional optical viewfinder to the camera accessory shoe. Remove the accessory shoe cover and mount the optical viewfinder on the accessory shoe.



Using the shutter release

Use an optional shutter release to minimizes camera shake and allow you to capture clearer photos at slower shutter speeds. For details about the shutter release, see the manual provided with the shutter release.

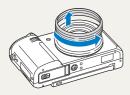
Using the microphone

Use an optional microphone to reduce noise surroundings. For details about the microphone, see the manual provided with the microphone.

Using a conversion lens

If you have a conversion lens designed for Samsung cameras, you can attach it to increase your camera's range and depth of field.

1 Remove the stock camera ring by turning it counterclockwise.



2 Mount the conversion lens by turning it clockwise until it locks into place.



- 3 In Shooting or Playback mode, press [MENU].



- After setting to use the conversion lens, the optical and digital zooms are not available.
- If you do not set Conversion lens to On after attaching the conversion lens, rotating [Zoom] left or right will turn your camera off.

Before contacting a service center

If you are having trouble with your camera, try these troubleshooting procedures before you contact a service center. If you have attempted the suggested remedy and are still having problems with your device, contact your local dealer or service center.



When you leave your camera at a service center, be sure to also leave the other components that may have contributed to the malfunction, such as the memory card and battery.

Situation	Suggested remedies
Cannot turn on the camera	Ensure that the battery is inserted. Ensure that the battery is inserted correctly. (p. 22) Charge the battery.
The power turns off suddenly	Charge the battery. Your camera may be in Auto power off mode. (p. 152) The camera may turn off to prevent the memory card from being damaged due to an impact. Turn on your camera again.
The camera is losing battery power quickly	The battery may lose power more quickly in low temperatures (below 0 °C/32 °F). Keep the battery warm by putting it into your pocket. Using the flash or recording videos depletes the battery quickly. Recharge if needed. Batteries are consumable parts that must be replaced over time. Get a new battery if the battery life is diminishing quickly.

Situation		
Cannot capture photos	There is no space on the memory card. Delete unnecessary files or insert a new card. Format the memory card. The memory card is defective. Get a new memory card. Make sure that the camera is switched on. Charge the battery. Make sure that the battery is inserted correctly.	
The camera freezes	Remove the battery and insert it again.	
The camera heats up	While you use the camera, it may heat up. This is normal and should not affect your camera's lifespan or performance.	
The flash does not work	 Pop the flash up by sliding the flash release. The flash option may be set to Off. (p. 69) You cannot use the flash in some modes. 	

Situation	Suggested remedies	
The flash fires unexpectedly	The flash may fire due to static electricity. The camera is not malfunctioning.	
The date and time are incorrect	Set the date and time in the display settings. (p. 151)	
The display or buttons do not work	Remove the battery, and then insert it again.	
The camera display responds poorly	If you use your camera at very low temperatures, it may cause the camera screen to malfunction or discolor. For better performance of your camera screen, use your camera in moderate temperatures.	
The memory card has an error	Turn off your camera, and then turn it on again. Remove your memory card, and then insert it again. Format your memory card. See "Cautions when using memory cards" for more detail. (p. 162)	
Cannot play back files	If you change the name of a file, your camera may not play the file (the name of the file should meet the DCF standard). If you encounter this situation, play back the files on your computer.	

011 11	
Situation	
The photo is blurry	 Make sure that the focus option you set is suitable for close-up shots. (p. 72) Make sure that the lens is clean. If not, clean the lens. (p. 157) Make sure that the subject is within range of the flash. (p. 174)
The colors in the photo do not match the actual scene	An incorrect White Balance can create unrealistic color. Select the proper White Balance option to suit the light source. (p. 84)
The photo is too bright	Your photo is overexposed. Turn off the flash. (p. 69) Adjust the ISO sensitivity. (p. 71) Adjust the exposure value. (p. 82)
The photo is too dark	Your photo is underexposed. Turn on the flash. (p. 69) Adjust the ISO sensitivity. (p. 71) Adjust the exposure value. (p. 82)
The TV does not display your photos	 Make sure that the camera is correctly connected to the TV with the AV cable. Make sure that your memory card contains photos.

Situation	Suggested remedies	
Your computer does not recognize your camera	Make sure that the USB cable is connected correctly. Make sure that your camera is switched on. Make sure that you are using a supported operating system.	
Your computer disconnects the camera while transferring files	The file transmission may be interrupted by static electricity. Disconnect the USB cable and connect it again.	
Your computer cannot play videos	Videos may not play on some video player programs. To play video files captured with your camera, use the Multimedia Viewer program that you can install with the iLauncher program on your computer. (p. 117)	
iLauncher is not functioning properly	End iLauncher and restart the program. Depending on your computer's specifications and environment, the program may not launch automatically. In this case, click Start → All Programs → Samsung → iLauncher → Samsung iLauncher on your Windows OS computer. Or, click Applications → Samsung → iLauncher on your Mac OS computer.	

Situation	Suggested remedies	
Your TV or computer cannot display photos and videos that are stored on an SDXC memory card	SDXC memory cards use the exFAT file system. Ensure that the external device is compatible with the exFAT file system before connecting the camera to the device.	
Your computer does not recognize an SDXC memory card	SDXC memory cards use the exFAT file system. To use SDXC memory cards on a Windows XP computer, download and update the exFAT file system driver from the Microsoft website.	
Cannot set the DPOF for RAW files	You cannot set the DPOF for RAW files.	
Cannot lock the exposure value by pressing [AEL]	You cannot lock the exposure value in some shooting modes.	
External flash or microphone does not work	Ensure that the external device is properly mounted and turned on.	

Camera specifications

Image sensor		
Туре	1/1.7" (Approximately 9.33 mm) BSI CMOS	
Effective pixels	Approximately 12.4 mega-pixels	
Total pixels	Approximately 12.76 mega-pixels	
Lens		
Focal length	Schneider-KREUZNACH Lens f = 5.2–17.2 mm (35 mm film equivalent: 24–80 mm)	
F-stop range	F1.4 (W)-F2.7 (T), Include ND filter	
Digital zoom	Still image mode: 1.0–4.0X (Smart zoom: 1.33X, Optical zoom: 3.3X)	
Display		
Type	AMOLED	
Feature	3.0" (7.6 cm) VGA, 614k dots (PenTile), Rotating	
Focusing		
Туре	TTL auto focus (Multi AF, Center AF, Selection AF, Face Detection AF, Tracking AF, Smart Face Recognition AF), Manual Focus	

		Wide (W)	Tele (T)
Range	Normal (AF)	40 cm-infinity	100 cm-infinity
	Macro	1-40 cm	40-100 cm
	Auto Macro	1 cm-infinity	40 cm-infinity
	Manual Focus	1 cm-infinity	40 cm-infinity

Shutter speed				
	F1.4-F3.8 (Wide)	F3.9-F7.7 (Wide)		
Auto	1/8-1/2,000 sec.	1/8-1/4,000 sec.		
Program	1-1/2,000 sec.	1-1/4,000 sec.		
Night	8-1/2,000 sec.	8-1/4,000 sec.		
Manual	30-1/2,000 sec.	30-1/4,000 sec.		

Exposure	
Control	Program AE, Shutter Priority AE, Aperture Priority AE, Manual Exposure
Metering	Multi, Spot, Center-weighted, Face Detection
Compensation	±2EV (1/3 EV Step)

Camera specifications

ISO equivalent	Auto, ISO 80, ISO 100, ISO 200, ISO 400, ISO 800, ISO 1600, ISO 3200, ISO 6400*, ISO 12800* * Available only when ISO Expansion is activated.	
Flash		
Mode	Auto, Red-eye, Fill in, Slow Sync, Off, Red-eye Fix	
Range	Wide: 0.9–7.8 m (ISO Auto)Tele: 0.8–4.1 m (ISO Auto)	
Flash Compensation	1+1EV (1/2 EV Sten)	
Recharging time	time Approximately 4 sec.	
Shake reduction		
DUAL IS [Optical Image Stabilization (OIS) + Digital Image Stabilization (DIS)]		

Effect			
Photo Shooting mode	Smart Filter: Normal, Miniature, Vignetting, Soft Focus, Old Film, Half Tone Dot, Sketch, Fish-eye, Classic, Retro, Oil Painting, Cartoon, Ink Painting, Cross Filter, Zooming Shot Artistic Brush Image Adjust: Contrast, Sharpness, Saturation		
Video Shooting mode	Smart Filter: Normal, Palette Effect 1, Palette Effect 2, Palette Effect 3, Palette Effect 4, Miniature, Vignetting, Half Tone Dot, Sketch, Fish-eye, Classic, Retro		
White Balance			
Mode	Auto WB, Daylight, Cloudy, Fluorescent_H, Fluorescent_L, Tungsten, Custom Set, Color Temp.		
Micro adjustment	Each 7 steps in Amber/Blue/Green/Magenta axis		
Date Imprinting			
Date & Time, Date, Off			

Shooting	
Photos	Modes: Smart Auto (Portrait, Night Portrait, Backlight Portrait, Night, Backlight, Landscape, White, Natural Green, Blue Sky, Sunset, Macro, Macro text, Macro Color, Tripod, Action, Fireworks, Candle, Spotlight, Spotlight (Macro), Spotlight (Portrait)), Program, Aperture Priority, Shutter Priority, Manual, Scene (Beauty Shot, Night, Landscape, Text, Sunset, Dawn, Backlight, Beach & Snow, 3D Photo), Magic Plus (Panorama, Magic Frame, Split Shot, Picture in Picture, Artistic Brush, HDR) Burst: Single, High-speed (10fps, 5fps, 3fps), Precapture, Bracket (WB, AE), Timer Timer: 10 Sec, 2 Sec ND Filter effect: On, Off
Videos	Modes: Smart Scene Detection (Landscape, Blue Sky, Natural Green, Sunset), Movie, Magic Plus (Picture in Picture) Format: MP4 (H.264) (Max recording time: 20 min) Size: 1920 X 1080, 1280 X 720, 640 X 480, 320 X 240 High-speed: 480fps (192 X 144), 240fps (384 X 288), 120fps (640 X 480) Sound Alive: Sound Alive On, Sound Alive Off, Mute Image Stabilizer: Off, OIS, Dual IS Capturing during recording

Playback		
Photos	Type: Single image, Thumbnails, Multi Slide Show with Music and Effect, Movie clip, Smart Album*, Creative Movie Maker Smart Album category: Type, Date, Week, Face Edit: Resize, Rotate, Image Adjust, Smart Filter, Trim Effect: Image Adjust (Red-eye Fix, Face Retouch, Brightness, Contrast, Saturation, Add Noise), Smart Filter (Normal, Miniature, Vignetting, Soft Focus, Old Film, Half Tone Dot, Sketch, Fish-eye, Classic, Retro, Oil Painting, Cartoon, Ink Painting, Cross Filter, Zooming Shot)	
Videos	Edit: Creative Movie Maker, Still image capture, Time trimming	
Storage		
External memory (Optional): SD card (1–2 GB guaranteed), SDHC card (up to 32 GB guaranteed SDXC card (up to 64 GB guaranteed)		
File format	Still Image: JPEG (DCF), EXIF 2.21, DPOF 1.1 Movie Clip: MP4 (Video: MPEG-4.AVC/H.264, Audio: AAC)	

For 2	GB SD: Numb	er of photos		
		Super Fine	Fine	Normal
12 _M	4000 X 3000	277	313	503
Юме	4000 X 2672	254	349	558
Ям	4000 X 2248	286	392	623
8 _M	3264 X 2448	335	457	721
8 _M	2832 X 2832	333	456	719
[5 _M]	2592 X 1944	512	691	1,060

819

1.095

1,588

2,009

1.081

1.418

1984 X 1488

2m 1920 X 1080

Image size

lm	1024 X 768	2,165 2,		610	3,284		
		RAW		W + Fine	RAW Fine		RAW + Normal
12 _M	4000 X 3000	73	E	51	59		69
10 _{MP}	4000 X 2672	74	E	54	61		71
Ям	4000 X 2248	76	E	57	64		73
8 _M	3264 X 2448	78	6	60	67		75
8 _M	2832 X 2832	78	Е	60	67		75
5 _M	2592 X 1944	83	6	39	74		80
Эм	1984 X 1488	87	7	77	81		85
211	1920 X 1080	89	8	31	84		87
lm	1024 X 768	91	8	37	88		90

These figures are measured under Samsung's standard conditions. Your results may vary depending on the shooting conditions and camera settings.

Wireless network

Mobile Link, Remote Viewfinder, Social Sharing, Email, Cloud, Auto Backup, TV Link, Wi-Fi Direct

Interface			
Digital output connector	USB 2.0		
Audio input/output Internal speaker (Mono), Microphone (Stereo)			
AV: NTSC, PAL (selectable) HDMI 1.4: NTSC, PAL (selectable)			
DC power input connector 5 V			
Power source			
Rechargeable battery	Lithium-ion battery (SLB-10A, 1,030 mAh)		
Connector type	Micro USB (7 pin)		
The power source may differ depending on your region.			

Camera specifications

Dimensions (W X H X D)

112.1 X 62.4 X 27.55 mm (without protrusions)

Weight

286 g (without battery and memory card)

Operating Temperature

0-40 °C

Operating Humidity

5-85 %

Software

iLauncher, Samsung RAW Converter

Specifications may change without notice to improve performance.

Glossary

AEB (Auto Exposure Bracket)

This feature automatically captures several images at different exposures to help you capture a properly-exposed image.

AF (Auto Focus)

A system that automatically focuses the camera lens on the subject. Your camera uses the contrast to focus automatically.

Aperture

The aperture controls the amount of light that reaches the camera's sensor.

Camera shake (Blur)

If the camera is moved while the shutter is open, the entire image may appear blurred. This occurs more often when the shutter speed is slow. Prevent camera shake by raising the sensitivity, using the flash, or using a faster shutter speed. Alternately, use a tripod, the DIS or OIS function to stabilize the camera.

Composition

Composition in photography means arranging objects in a photo. Usually, abiding by the rule of thirds leads to a good composition.

DCF (Design rule for Camera File system)

A specification to define a file format and file system for digital cameras created by the Japan Electronics and Information Technology Industries Association (JEITA).

Depth of field

The distance between the nearest and farthest points that can be acceptably focused in a photograph. Depth of field varies with lens aperture, focal length, and distance from the camera to the subject. Selecting a smaller aperture, for example, will increase the depth of field and blur the background of a composition.

Digital zoom

A feature that artificially increases the amount of zoom available with a zoom lens (Optical zoom). When using the Digital zoom, the image quality will deteriorate as the magnification increases.

DPOF (Digital Print Order Format)

A format for writing printing information, such as selected images and number of prints, on a memory card. DPOF-compatible printers, sometimes available at photo shops, can read the information from the card for convenient printing.

EV Compensation

All the combinations of the camera's shutter speed and lens aperture that result in the same exposure.

EV (Exposure Value)

This feature allows you to quickly adjust the exposure value measured by the camera, in limited increments, to improve the exposure of your photos. Set the EV compensation to -1.0 EV to adjust the value one step darker and 1.0 EV to one step brighter.

Exif (Exchangeable Image File Format)

A specification to define an image file format for digital cameras created by the Japan Electronic Industries Development Association (JEIDA).

Exposure

The amount of light allowed to reach the camera's sensor. Exposure is controlled by a combination of the shutter speed, the aperture value, and ISO sensitivity.

Flash

A speed light that helps to create adequate exposure in low-light conditions.

Focal length

The distance from the middle of the lens to its focal point (in millimeters). Longer focal lengths result in narrower angles of view and the subject is magnified. Shorter focal lengths result in wider angles of view.

Histogram

A graphical representation of the brightness of an image. The horizontal axis represents the brightness and the vertical axis represents the number of pixels. High points at the left (too dark) and right (too bright) on the histogram indicate a photo that is improperly exposed.

H.264/MPEG-4

A high-compression video format established by international standard organizations ISO-IEC and ITU-T and developed by the Joint Video Team (JVT). This codec is capable of providing good video quality at low bit rates.

Image sensor

The physical part of a digital camera that contains a photosite for each pixel in the image. Each photosite records the brightness of the light that strikes it during an exposure. Common sensor types are CCD (Charge-coupled Device) and CMOS (Complementary Metal Oxide Semiconductor).

ISO sensitivity

The sensitivity of the camera to light, based on the equivalent film speed used in a film camera. At higher ISO sensitivity settings, the camera uses a higher shutter speed, which can reduce blur caused by camera shake and low light. However, images with high sensitivity are more susceptible to noise.

JPEG (Joint Photographic Experts Group)

A lossy method of compression for digital images. JPEG images are compressed to reduce their overall file size with minimal deterioration of the image resolution.

LCD (Liquid Crystal Display)

A visual display commonly used in consumer electronics. This display needs a separate backlight, such as CCFL or LED, to reproduce colors.

Macro

This feature allows you to capture close-up photos of very small objects. When using the macro feature, the camera can maintain a sharp focus on small objects at a near life-size ratio (1:1).

Metering

The metering refers to the way in which the camera measures the quantity of light to set the exposure.

MJPEG (Motion JPEG)

A video format which is compressed as a JPEG image.

MPO (Multi Picture Object)

An image file format that contains multiple images in a file. An MPO file provides a 3D effect on MPO-compatible displays, such as 3D TVs or 3D monitors.

Noise

Misinterpreted pixels in a digital image that may appear as misplaced or random, bright pixels. Noise usually occurs when photos are shot with a high sensitivity or when a sensitivity is automatically set in a dark place.

OIS (Optical Image Stabilization)

This feature compensates in real-time for shaking and vibrating while shooting. There is no image degradation compared to Digital Image Stabilization feature.

Optical zoom

This is a general zoom which can enlarge images with a lens and does not deteriorate quality of images.

Quality

An expression of the rate of compression used in a digital image. Higher quality images have a lower rate of compression, which usually results in a larger file size.

Resolution

The number of pixels present in a digital image. High resolution images contain more pixels and typically show more detail than low resolution images.

Shutter speed

Shutter speed refers to the amount of time it takes to open and close the shutter, and it is an important factor in the brightness of a photo, as it controls the amount of light which passes through the aperture before it reaches the image sensor. A fast shutter speed allows less time to let light in and the photo becomes darker and more easily freezes subjects in motion.

Smart zoom

Smart zoom lets you zoom in with less degradation of picture quality than the optical zoom and digital zoom.

Vignetting

A reduction of an image's brightness or saturation at the periphery (outer edges) compared to the center of the image. Vignetting can draw interest to subjects positioned in the center of an image.

White balance (color balance)

An adjustment of the intensities of colors (typically the primary colors red, green, and blue), in an image. The goal of adjusting the white balance, or color balance, is to correctly render the colors in an image.



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.



PlanetFirst represents Samsung Electronics' commitment to sustainable development and social responsibility through eco-driven business and management activities.



Correct disposal of batteries in this product

(Applicable in countries with separate collection systems)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

This Class [B] digital apparatus complies with Canadian ICES-003.

Dispose unwanted electronics through an approved recycler. To find the nearest recycling location, go to our website: www.samsung.com/recyclingdirect Or call, (877) 278 - 0799

FCC notice

Caution:

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorientate or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

· Declaration of Conformity

Trade Name : Samsung Electronics America, Inc.

Model No. : Samsung EX2F

Responsible Party : Samsung Electronics America, Inc.

Address : 85 Challenger Road, Ridgefield Park,

NJ 07660

Telephone No. : 1-800-SAMSUNG (726-7864)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including

interference that may cause undesired operation.



FCC ID:A3LEX2F

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF exposure statements:

This device is for handheld operation only. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Caution:

Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void user's authority to operate the equipment. IC: 649E-EX2F

This equipment may be operated in all EU countries. In France, this equipment may only be used indoors.

Complies with IDA Standards DA100790







TA-2012/726 APPROVED



Model : EX2F Year of Manufacture : 2012



Declaration of Conformity

Product details

Model(s): EX2F

For the following

Product: DIGITAL CAMERA

C€0678⊕

Declaration & Applicable standards

We hereby declare that the product(s) above is(are) in compliance with the essential requirements and other provisions of the R&TTE Directive (1999/5/EC), the Low Voltage Directive (2006/95/EC) and the Electromagnetic Compatibility Directive (2004/108/EC) by application of:

EN 60950-1:2006+A1:2010 EN 55

EN 55024:1998+A1:2001+A2:2003

EN 55022:2006+A1 :2007 EN 61000-3-3:2008 EN 61000-3-2:2006 +A1:2009 +A2:2009

EN 301 489-1 v1.8.1

EN 300 328 v1.7.1 EN 301 489-17 V2.1.1

EN62311:2008

and the Eco-Design Directive (2009/125/EC) implemented by Regulations (EC) No 278/2009 for external power supplies.

Representative in the EU

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(YEAR TO BEGIN AFFIXING CE MARKING 2012)



Joong-Hoon Choi / Lab. Manager

(Name and signature of authorized person)

* This is not the address of Samsung Service Centre. For the address or the phone number of Samsung Service Centre, see the warranty card or contact the retailer where you purchased your product.

Declaration sentence in official languages

Nation	Declaration
Cesky	Samsung Electronics tímto prohlašuje, že tento digitální fotoaparát je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
Dansk	Samsung Electronics erklærer herved, at digitale kameraer overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
Deutsch	Hiermit erklärt Samsung Electronic, dass sich die Digitalkamera in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
Eesti	Käesolevaga kinnitab Samsung Electronics digitaalkaamera vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
English	Hereby, Samsung Electronics declares that this digital camera is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Español	Por medio de la presente Samsung Electronics declara que la cámara digital cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
Ελληνική	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ η Samsung Electronics ΔΗΛΩΝΕΙ ΟΤΙ η ψηφιακή φωτογραφική μηχανή ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΉΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΈΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
Français	Par la présente Samsung Electronic déclare que l'appareil photo numérique est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
Italiano	Con la presente Samsung Electronicsdichiara che questa fotocamera digitale è conforme ai requisiti essenziali e alle altre disposizioni stabilite dalla Direttiva 1999/5/CE.
Latviski	Ar šo Samsung Electronics deklarē, ka digitālā kamera atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių	Šiuo Samsung Electronics deklaruoja, kad šis skaitmeninis fotoaparatas, atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
Nederlands	Hierbij verklaart Samsung Electronics dat de digitale camera in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.

Nation	Declaration
Malti	Hawnhekk, Samsung Electronics, tiddikjara li din il-kamera diĝitali hi konformi mar-rekwiżiti essenzjali u ma' dispożizzjonijiet rilevanti ofirajn ta' Direttiva 1999/5/KE.
Magyar	A Samsung Electronics kijelenti, hogy ez a digitális fényképezőgép megfelel az 1999/5/EK irányelv alapvető követelményeinek és egyéb vonatkozó előírásainak.
Polski	Niniejszym firma Samsung Electronics oświadcza, że ten aparat cyfrowy jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/WE.
Português	Samsung Electronics declara que esta câmera digital está conforme os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
Slovensko	Samsung Electronics izjavlja, da je ta digitalni fotoaparat v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky	Samsung Electronics týmto vyhlasuje, že tento digitálny fotoaparát spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
Suomi	Samsung Electronics vakuuttaa täten että tämä digitaalikamera on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Svenska	Härmed intygar Samsung Electronicsatt dessa digitalkameror står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.
Български	С настоящото Samsung Electronics декларира, че този цифров фотоапарат е в съответствие със съществените изисквания и другите приложими разпоредби на Директива 1999/5/ЕК.
Română	Prin prezenta, Samsung Electronics, declară că această cameră foto digitală este în conformitate cu cerințele esențiale și alte prevederi relevante ale Directivei 1999/5/CE.
Norsk	Samsung Electronicserklærer herved at dette digitalkameraet er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.
Türkiye	Bu belge ile, Samsung Electronics bu dijital kameranın 1999/5/EC Yönetmeliginin temel gerekliliklerine ve ilgili hükümlerine uygun olduğunu beyan eder.
Íslenska	Hér með lýsir Samsung Electronics því yfir að þessi stafræna myndavél sé í samræmi við grunnkröfur og önnur ákvæði tilskipunar 1999/5/EB.

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Please refer to the warranty that came with your product or visit our website, www.samsung.com, for after-sales service or inquiries.

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